

# **FY2014 4th Qtr. Final Output Report**

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**GOAL # 2**

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| GOAL #2: Protecting America’s Waters |  | Program #4900: Drinking Water Regulation  |                                  |
|--------------------------------------|--|---|----------------------------------|
| Objective 2.1: Protect Human Health. |  |   |                                  |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.1                                | <p><b>TASK: Drinking Water Plan Review</b></p> <p>Review applications for drinking water projects including new water production, treatment, storage and distribution facilities and appurtenances, modifications to existing facilities, and point-of-use/point-of-entry devices. Review plans for swimming pools.</p> <p>Assist individual drinking water systems to improve operations on site.</p> <p><b>DELIVERABLES:</b></p> |   |                                  |
| PWSS<br>Federal                      | <p>1) Make permitting decisions within licensing timeframe (LTF) requirements on drinking water project applications. Report numbers processed:</p> <p>a) Approvals to Construct (ATC)</p> <p>b) Approvals of Construction (AOC)</p> <p>c) Approvals to Install POU/POE</p> <p>d) Approvals of POU/POE Installation</p>  | <p>T = 100%</p> <p>a) Quarterly A = 174</p> <p>b) Quarterly A = 217</p> <p>c) Quarterly A = 2</p> <p>d) Quarterly A = 2</p> | Drinking Water<br>SRO            |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>     | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|----------------|-----------------|----------------|
| WQFF PWSS Federal {Match} | 0.15        | 9,921            | 4,365          | 6,802           | 21,088         |
| WQFF APP                  | 4.00        | 216,218          | 95,136         | 148,236         | 459,590        |
| PWSS Federal              | 0.10        | 3,250            | 1,430          | 2,228           | 6,908          |
| <b>TOTALS</b>             | <b>4.25</b> | <b>229,389</b>   | <b>100,931</b> | <b>157,266</b>  | <b>487,586</b> |

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| GOAL #2: Protecting America's Waters<br>Objective 2.1: Protect Human Health. |   | Program #4900: Drinking Water Regulation                          |                                  |
|--|---|---|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.2  | <b>TASK: Drinking Water Technical Assistance</b><br><br>Maintain WIFA/DEQ partnership to provide technical assistance to public water systems using third-party providers to deliver technical assistance to individual PWSs, or groups of PWSs at ADEQ's direction. In addition, providers may develop tools that will benefit small public water systems.<br><br><b>DELIVERABLES:</b> |   |                                  |
| PWSS<br>Federal  | 1) Finalize Master Priority List (MPL) for system level technical assistance in conjunction with WIFA.  | T = Annually    A = 4/4/14  | Drinking Water                   |
| PWSS<br>Federal  | 2) Initiate System Evaluations (SEs) projects to state approved contractors and oversee contractor performance. Apply system level TA, which may include fundable ranges outlined in WIFA's Intended Use Plan (IUP), within 30 days after SEs are approved by the state.  | T = Quarterly    Comments   | Drinking Water                   |
| PWSS<br>Federal  | 3) FY13 Annual Report to EPA  | T = 9/01/13    A = 9/10/13  | Drinking Water                   |

| FTE Funding Source  | FTE         | Personnel    | ERE          | Indirect     | Total          |
|---|-------------|--------------|--------------|--------------|----------------|
| PWSS Federal<br><b>Contracts: Oper Tech Assist (2% set-aside)</b> | 0.16        | 8,904        | 3,918        | 6,104        | 18,926         |
| <b>TOTALS</b>   | <b>0.16</b> | <b>8,904</b> | <b>3,918</b> | <b>6,104</b> | <b>218,926</b> |

### Comments:

Del. #2: In FY14, 15 tasks were completed at 9 PWSs: five system evaluations, five Operation and Maintenance Documents, three Nitrate Treatment Evaluations, one Radionuclides treatment and one Disinfection By-Products (DBP) treatment evaluation. As of June 30, 2014, there are 4 PWSs in process. During FY14, One Operation and Maintenance Document, two system evaluations, and one DBP treatment evaluation were in process as of June 30, 2014. Approximately \$76,000 was disbursed for TA tasks in FY14. Approximately \$88,500 was disbursed for Capacity Development / Operator training workshops.

The Drinking Water Section (DWS) reports continued success of the technical assistance (TA) program since its inception in 2004. The TA program uses an annually updated master priority list to identify PWSs that are most in need of facility operation, maintenance and/or managerial improvement, as such improvements help to ensure that water served by PWSs meets state and federal safe drinking water standards. Additional PWS performance improvement includes increased conformance with all other safe drinking water rule requirements (e.g., operator certification, engineering, monitoring, reporting, etc.). A system evaluation, the core TA task, includes a facility site visit and records reviews to determine the technical, managerial, financial, and security status of a given PWS. The completed system evaluation includes a summary report which prioritizes recommendations for operators and owners and other technical assistance providers. DWS staff also works with the Water Infrastructure Finance Authority (WIFA) to conduct system evaluations for facilities interested in securing a WIFA generated grant or loan. The

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Treatment Evaluation process was developed in FY10 to provide systems with a structured industry standardized evaluation to identify feasible site-specific treatment options to meet water quality standards. PWSs were prioritized from FY10 to FY14 in conjunction with the WQD Enforcement Unit to assist in addressing PWSs with unresolved MCLs as identified on the ETT list.

Additionally, the DWS awarded a task for an Operations and Maintenance Manual Template Tool in FY11 for Arizona systems' independent use and for Operations & Maintenance Packages developed for systems requesting assistance. The Operations and Maintenance Manual Template Tool was completed in FY12.

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| GOAL #2: Protecting America’s Waters |  | Program #4900: Drinking Water Regulation                          |                                  |
|--------------------------------------|--|---|----------------------------------|
| Objective 2.1: Protect Human Health. |  |   |                                  |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.3                                | <p><b>TASK: Operator Certification</b></p> <p>The Safe Drinking Water Act requires states to adopt and implement a program for certification and recertification of the operators of community water systems (CWSs) and non-transient, non-community water systems (NTNCWSs) that meet the minimum standards set forth in guidelines to be published by EPA.</p> <p>ADEQ will conduct certification exams or contract with third party to conduct exams statewide, maintain registry of certified operators, and process and resolve disputes between persons and third party testers.</p> <p><b>DELIVERABLES:</b></p> |   |                                  |
| PWSS<br>Federal                      | 1) Conduct training workshops.   | T = 6 A = 10  | Drinking Water                   |
| PWSS<br>Federal                      | 2) Issue certificates to persons passing testing requirements within 7 days of receipt from third party vendors. Report certificates issued by class and grade.  | T = Quarterly Comment   | Drinking Water                   |
| PWSS<br>Federal                      | 3) Review and verify professional development hours for certification renewals.  | T = 10% A = 10%   | Drinking Water                   |
| PWSS<br>Federal                      | 4) Conduct audits of approved third party proctors.  | T = 100% A = 100%   | Drinking Water                   |
| PWSS<br>Federal                      | 5) FY13 Annual Report to EPA.  | T = 9/01/13 A = 9/10/13   | Drinking Water                   |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| PWSS Federal              | 2.83        | 125,475          | 55,209        | 86,024          | 266,708        |
| <b>TOTALS</b>             | <b>2.83</b> | <b>125,475</b>   | <b>55,209</b> | <b>86,024</b>   | <b>266,708</b> |

### Comments:

Del. #1: Ten workshops were conducted in FY14. Seven of the ADEQ training events were primarily related to water distribution and treatment and three of the training events were primarily related to drinking water rules. The DWS continues to assist operators of public water systems serving less than 3,300 persons with training and continuing education requirements.

Del #2: 893 certificates were issued to persons passing exam requirements: Distribution Grade 1 = 281; Distribution Grade 2 = 114; Distribution Grade 3 = 57; Distribution Grade 4 = 34; Treatment Grade 1 = 207; Treatment Grade 2 = 103; Treatment Grade 3 = 62; Treatment Grade 4 = 35.

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In November 2008, the DWS completed the transition to the use of operator certification exams provided by the Association of Board Certification (ABC). In addition to the use of ABC exams, proctoring services are now provided through local community colleges. The combination of the use of ABC exams coupled with the community college proctoring services has greatly enhanced ADEQ's operator certification program. Exams are now taken electronically at testing centers with instant grading analysis (pass/fail), in addition to the ability to schedule numerous exam sessions throughout the state at multiple campus and off-campus locations.

The upgrades to the Safe Water Operator Certification System (SWOCS) in FY07 and again in FY12 continued to be beneficial to the program in FY14 by facilitating the notification of PWSs who do not have a certified operator of record. As of July 9, 2014, 22 PWSs, representing approximately 1.5% of the total number of systems, did not have a certified operator of record, unchanged from FY13.

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| GOAL #2: Protecting America's Waters<br>Objective 2.1: Protect Human Health. |  | Program #4900: Drinking Water Regulation  |                                  |
|--|--|---|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL               | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.4  | <p><b>TASK: New and Existing System Capacity Development</b></p> <p>Assure that new community water systems and non-transient, non-community water systems which commenced operations since October 1, 1999, can demonstrate technical, managerial and financial capacity to operate in compliance with the requirements contained in the federal regulations in effect at the time the water system begins operations.</p> <p>Implement the WIFA/DEQ Partnership to provide Operational Technical Assistance. Identify technical, managerial and financial (TMF) obstacles/challenges faced by existing systems and implement strategies to address the same.</p> <p><b>DELIVERABLES:</b></p> |   |                                  |
| PWSS<br>Federal  | 1) Make permitting decisions within licensing time frame (LTF) requirements on elementary business plan applications and prior to issuance of AOC. Report permitting decisions.  | T = Quarterly<br><br>A = 4<br><b>Comments</b>                                   | Drinking Water                   |
| PWSS<br>Federal  | 2) Conduct ongoing training for PWS staff/certified operators which, at a minimum, will include the following topics:<br>a) Monitoring assistance program<br>b) New PWS capacity development<br>c) EMP/ERP/VA<br>d) Existing compliance monitoring rules   | T =<br><br>a) 2<br>b) 2<br>c) 2<br>d) 4<br><br>A = 3<br>A = 2<br>A = 2<br>A = 7 | Drinking Water                   |
| PWSS<br>Federal  | 3) FY13 Annual Program Evaluation Report.  | T = 9/1/13<br>A = 9/10/13   | Drinking Water                   |
| PWSS<br>Federal  | 4) Update capacity development master priority list annually for existing systems.   | T = 3/14<br>A = 4/14  | Drinking Water                   |

| FTE Funding Source | FTE         | Personnel     | ERE           | Indirect      | Total          |
|--------------------|-------------|---------------|---------------|---------------|----------------|
| PWSS Federal       | 1.76        | 85,934        | 37,811        | 58,915        | 182,660        |
| <b>TOTALS</b>      | <b>1.76</b> | <b>85,934</b> | <b>37,811</b> | <b>58,915</b> | <b>182,660</b> |



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### **Comments – Task 1.1.4:**

Del. #1: Four elementary business plans were approved in FY14: Avalon Gardens (PWS#A20412044); Starr School (PWS#20403101); Banner Health, Gilbert (PWS#A20407913); and Mesa Hill Estates/Perkins Valley Estates (PWS# has not been assigned). As of June 30, 2014, there was one capacity development application undergoing review.

The DWS continued to assure that all new community and non-transient, non-community PWSs that began operation on or after October 1, 1999, demonstrate technical, managerial and financial capacity. There has been an increase in elementary business plans from a total of one in FY 12 and FY13 to four in FY14.

The FY14 Master Priority List (MPL), developed for existing systems to update capacity development, was completed in March 2014. The MPL utilizes a list of criteria that is applied to each PWS to prioritize the facility for capacity development. Outreach efforts included ten training sessions and, when possible, the training sessions were developed to specifically target the types of PWSs ranking higher on the MPL.

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| GOAL #2: Protecting America’s Waters Regulation |  | Program #4900: Drinking Water                                  |                               |
|---|--|--|-------------------------------|
| Objective 2.1: Protect Human Health.            |  |  |                               |
| TASK/<br>GRANT                                  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE SECTION/<br>STAFF |
| 1.1.5   | <p><b>TASK: Drinking Water Monitoring Assistance Program (MAP)</b></p> <p>Develop and implement strategies to perform compliance monitoring for systems serving fewer than 10,000 populations. Provide technical assistance, develop and update monitoring guidance documents. Initiate and issue waivers. Update vulnerability assessments. Reconcile laboratory analysis report with requested tests and with individual system monitoring requirements. Assure all follow-up samples are taken. GPS points of entry, as needed.</p> <p><b>DELIVERABLES:</b></p> |  |                               |
|   | 1) Update monitoring schedules, including waivers and/or reduced monitoring assessments, for:<br>a) Groundwater PWSs<br>b) Surface water PWSs  | T = Ongoing <b>Comment</b><br><br>a) Quarterly<br>b) Quarterly | Drinking Water                |
| PWSS<br>Federal                                 | 2) Complete 2014 MAP system invoices.  | T = 2/15/14 <b>Comment</b>                                     | Drinking Water                |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| Map Fee Fund              | 2.00        | 87,236           | 38,384        | 59,808          | 185,427        |
| PWSS Federal              | 0.47        | 31,774           | 13,981        | 21,784          | 67,538         |
| <b>TOTALS</b>             | <b>2.47</b> | <b>119,010</b>   | <b>52,365</b> | <b>81,592</b>   | <b>252,965</b> |

### Comments:

Del. #1a&1b: Updates were performed 8/14/13, 10/14/13, 12/11/13, 2/12/14, 3/25/14, 5/5/14 and 6/25/14. Del #2. Billing for calendar year 2014 MAP program began in November 2013 and has continued through June 2014; it is anticipated that all billing will be complete by July 2014. The delay in billing occurred due to implementation of a new accounting system in early 2013.

The Monitoring Assistance Program (MAP) completed its fifteenth year of operations in FY14 and continues to be a strongly supported program by the regulated community. By conducting baseline EPDS compliance monitoring for the participating PWSs serving less than 10,000 people (and for PWSs serving greater 10,000 that opt into the program), MAP continues to lower the number of potential missed monitoring/reporting violations state wide. MAP also continued to grant waivers and reduced monitoring for water systems meeting waiver and/or rule criteria, issued annual invoices, and mailed and processed MAP annual update cards.

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| GOAL #2: Protecting America's Waters<br>Objective 2.1: Protect Human Health. |  | Program #4900: Drinking Water Regulation                                 |                                  |
|--|--|--|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL        | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.6  | <b>TASK: Drinking Water Monitoring and Reporting</b><br><br>These activities will support all the monitoring and reporting requirements for public drinking water systems in accordance with state and federal drinking water rules.<br><br><b>DELIVERABLES:</b> |  |                                  |
| PWSS<br>Federal  | 1) Complete SDWIS reporting for OECA on actions taken on systems with new violations.  | T = Quarterly<br><b>A = 8; Comment</b>                                   | Drinking Water                   |
| PWSS<br>Federal  | 2) Run monitoring/reporting rules in SDWIS, validate violations and ensure proper public notification is issued.   | T = Quarterly <b>Comment</b>   | Drinking Water                   |
| PWSS<br>Federal  | 3) Hold regular meetings and/or conference calls with EPA to discuss PWSS issues. Document agreement on discussed items and follow up actions.   | T = 12 (Monthly)<br><b>A = 10; Comment</b>                               | Drinking Water                   |
| PWSS<br>Federal<br>Wellhead  | 4) Complete GUDI determinations on new groundwater sources as they are developed. Report determinations.   | T = Quarterly      A = 7   | Drinking Water                   |
|  | 5) <b>Review and respond to incremental primacy crosswalks comments as provided by EPA for Stage 1 D/DBPR, Stage 2 D/DBPR, and Administrative Penalty Authority.</b> (moved deliverable from Task 1.5.1.)  | <b>T = Within 45 days of receipt from EPA Region 9</b><br><b>Comment</b> | <b>Drinking Water</b>            |

| FTE Funding Source                           | FTE         | Personnel      | ERE            | Indirect       | Total          |
|--|-------------|----------------|----------------|----------------|----------------|
| PWSS Federal                                 | 4.49        | 219,001        | 96,360         | 150,144        | 465,505        |
| Wellhead                                     | 0.57        | 26,259         | 11,554         | 18,003         | 55,816         |
| <b>Contract: ADHS Primacy (PWSS Federal)</b> |             |                |                |                | <b>200,000</b> |
| <b>TOTALS</b>                                | <b>5.06</b> | <b>245,260</b> | <b>107,914</b> | <b>168,147</b> | <b>721,321</b> |

**4th QTR: #1:** Regular quarterly submittal sent on 5/5/14. ADEQ submitted files to reflect data clean-ups on 6/25/14 to address ETT points before ETT list is pulled July 1. **#2:** Completed by individual rule specialists, as needed during 4Q14, but delayed due to staffing issues and subsequent lag in data entry. **#3:** Two meetings were held this last quarter: The regular PWSS meeting on 4/17/14 (the May enforcement meeting was canceled and rescheduled to 6/20/14); and the PWSS/Source Water Protection Meeting which was rescheduled to July 17<sup>th</sup>. **#4:** PWS # 07045, Town of Wickenburg, Suspect GUDI letter sent on 4-10-14; two Microscopic Particulate Analyses (MPA) taken (Well 55-214237); First MPA performed on 4-28-2014, Low Risk result, second report pending. **#5:** One notification for Administrative Penalty Authority was submitted to EPA on 4/18/14.

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### NARRATIVE:

All targets were met.

Del. #1: The four required quarterly uploads were accomplished on time and, in addition, there were four mid-quarter uploads to address fixes, clean-ups and violations related to the EPA Enforcement Tracking Tool (ETT) list. These additional uploads provided EPA with a more accurate reflection of the outstanding violations associated with the ETT list. New violations that should be tied to existing enforcement actions are now linked on a monthly basis. As a result, the systems that are still not under any enforcement action will rise to the top of the ETT list.

Del. #2: Compliance determinations were run for Total Coliform, Ground Water Rule, nitrite, asbestos, arsenic, IOC, SOC VOC, Radionuclides, lead and copper, and turbidity. This included sending out letters for the missed monitoring and MCL's, and returning violations to compliance when possible. In the last quarter, staff moved to focused on returning systems to compliance (now tracked as a Q-Board Unit Metric) on a weekly basis. Only three of the thirty-three violation letters have been rewritten, but none have been loaded because this requires a programmer and coordination with ADEQ's IT Department. Since our programming contactor's funding ran out in FY 13 and IT is short staffed, this process has no estimated time of completion to load the revised letters into production.

Del. #3: Meetings with EPA were held each month, with the exception of the October meeting, due to the government shutdown, and the May meeting, due to the EPA staff person being out on leave. The main points we continue to address in the monthly PWSS meetings are the ETT list and issues related to the Primacy Package.

Del. #4: One NOT GUDI determination was made this year (PWS #11035 Kelvin Simmons Co-op: Not GUDI letter sent 12/5/13) and two suspect GUDI letters were sent during year (PWS #03008 City of Flagstaff: 07-23-13 Suspect GUDI letter sent; and PWS # 07045, Town of Wickenburg Suspect GUDI letter sent on 4-10-14). ADEQ is waiting for the other systems (PWS #13052 Humboldt; PWS #13263 ICR Water Users Association; PWS #13303 Inscription Camp Ranch System; and PWS # 10112, City of Tucson) to complete MPA testing (following rain events, as instructed by the Department).

Del. #5: For the primacy crosswalks, EPA was provided the information related to the Administrative Penalty Authority on 4/18/14.

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| GOAL #2: Protecting America's Waters<br>Objective 2.1: Protect Human Health. |   | Program #4900: Drinking Water Regulation                          |                                  |
|--|---|---|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.7  | <p><b>TASK: Source Water Protection</b></p> <p>Identify protective strategies and assist individual public water systems with the planning, development and application of measures/actions necessary to implement the Source Water Protection Program. Targets are our goals, however, the actual numbers achieved rely on the willingness and ability of public water systems to participate in the voluntary source water protection program (SWPP).</p> <p><b>a) Source Water Protection</b> –provide technical assistance in planning and implementing local Source Water Protection for public water systems throughout Arizona.</p> <p><b>b) Source Water Assessments</b> – perform or assist in the development of assessments for new individual sources or new systems which voluntarily choose to participate in source water protection by delineating source water protection areas, inventorying potential sources of contamination and performing vulnerability/susceptibility analysis.</p> <p><b>DELIVERABLES:</b></p> |   |                                  |
| PWSS<br>Federal  | 1) Conduct Source Water Protection Program outreach events with individual PWSs.  | T = 6                      A = 7                                  | Drinking Water                   |
| Wellhead   | 2) Collect locational data using GPS and/or GIS.<br>a) New drinking water sources or modify/update locational information for existing sources.<br>b) Potential sources of contamination (chemical use/storage) within ½ mile radius of a new or existing drinking water source.  | T = 3                      A = 6                                  | Drinking Water                   |
| Wellhead   | 3) Delineate source water assessment areas for new PWSs/sources or reassess/update existing assessment areas.   | T = 2                      A = 5                                  | Drinking Water                   |
| Wellhead   | 4) Make sensitivity determinations for PWSs/sources through:<br>a) Review of occurrence data<br>b) Review Sanitary Surveys<br>c) Review of hydrological characterization (50 foot clay layer).  | T = 2                      A = 8                                  | Drinking Water                   |
| Wellhead   | 5) Conduct comprehensive inventories of potential sources of contamination.   | T = 6                      A = 26                                 | Drinking Water                   |

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| GOAL #2: Protecting America's Waters<br>Objective 2.1: Protect Human Health. |  | Program #4900: Drinking Water Regulation                          |                                  |
|--|--|---|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.1.7  | <b>TASK: Source Water Protection (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |   |                                  |
| Wellhead   | 6) Identify any changes in trends to the previously identified most prevalent and most threatening potential sources of contamination                | T = 6/30/14 <b>Comment</b>  | Drinking Water                   |
| Wellhead   | 7) Use new and updated SWA as part of a PWSs development of a SWP plan.  | T = 4                      A = 5                                  | Drinking Water                   |
| Wellhead   | 8) Assist public water systems to identify protection strategies and to implement those strategies.  | T = 4                      A = 5                                  | Drinking Water                   |
| Wellhead   | 9) Assist community water systems in achieving minimized risk to public health, where risk to public health is minimized by source water protection. | T = 1 <b>Comment</b>  | Drinking Water                   |

| FTE Funding Source | FTE         | Personnel      | ERE            | Indirect       | Total          |
|--------------------|-------------|----------------|----------------|----------------|----------------|
| Wellhead           | 4.33        | 233,876        | 102,905        | 160,342        | 497,123        |
| PWSS Federal       | 0.19        | 11,415         | 5,023          | 7,826          | 24,264         |
| <b>TOTALS</b>      | <b>4.52</b> | <b>245,291</b> | <b>107,928</b> | <b>168,168</b> | <b>521,387</b> |

### **NARRATIVE:**

During the fiscal year we exceeded the target set for **del. 1**, to conduct source water protection program (SWPP) outreach events with individual PWSs, with 7 events. We began the year along with ADEQ's Children's Environmental Health Program for outreach at Verde River Days at Dead Horse Ranch State Park (9/28/13). This open event allowed us access to approximately 250 persons served by the public water systems in the area. We hope the information gathered by the public will allow them to encourage their water systems to pursue source water protective measures. We also made presentations at the ADEQ Capacity Development workshop in Flagstaff (October 29-30), ADEQ Capacity Development workshop in Sierra Vista (November 13-14), ADHS Environmental Sampling Workshop in Phoenix (November 19), ADEQ Capacity Development workshop in Lake Havasu City (January 28-29), ADEQ Capacity Development workshop in Yuma (February 11-12) and ADEQ Capacity Development workshop in Payson (June 10-11). Outreach for the SWPP covered customers in the northwest, north, central, west, southwest and southeast portions of the state.

**Del. 2:** In addition to the locational information collected and delineations made for the following schools: (PWS #09046 – Holbrook SDA Indian School; PWS #09088 – Sequoia Village School; PWS #13091 – Kirkland Elementary School; PWS #13098 Skull Valley Elementary; PWS #09074 American Indian Christian Mission); a site visit was made to PWS ID# 15497 Ehrenberg Improvement Association Water Dept. This system, which is a surface water Community Water System, has agreed to work with ADEQ on a SWPP. Surface water systems present unique challenges and Best Management Practices. Since ADEQ is generating the SWPP for the system, which will take some time to complete, and barring any unforeseen circumstances, the SWPP is expected to be completed by the end of the calendar year 2014.

Targets for **Del. 3 & 7** were all exceeded with the completion of work on five water systems listed under deliverable 2. Locational information was collected and delineations were made for those systems which allowed us to complete and mail five Source Water Protection Plans. Each of these systems is Non-transient Non-community systems.

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**Del. 4:** In addition to the locational information collected and delineations made for the schools: (PWS #09046 – Holbrook SDA Indian School; PWS #09088 – Sequoia Village School; PWS #13091 – Kirkland Elementary School; PWS #13098 Skull Valley Elementary; and PWS #09074 American Indian Christian Mission), we exceeded the target for FY14 with eight, which includes One NOT GUDI determination (PWS #11035 Kelvin Simmons Co-op, Not GUDI letter sent 12/5/13) and two suspect GUDI letters (PWS #03008 City of Flagstaff, 07-23-13 Suspect GUDI letter sent, and PWS # 07045, Town of Wickenburg, Suspect GUDI letter sent 4-10-14).

The target for **del. 5**, conduct comprehensive inventories of potential sources of contamination, was exceeded with the completion of 26 UST/LUST evaluations and reviews. Our source water protection program works with the ADEQ Waste Programs Division to address any UST/LUST sites that exist in a delineation area for any well within a public water system where a National Primary Drinking Water Standard has been detected during compliance monitoring. These hydrocarbon constituents have the potential to impact or contaminate a drinking water source. The twenty-six reviews conducted during the year are as follows: PWS #02007 Bella Vista Water South; PWS #02076 Double Adobe School; PWS #03063 Star Light Water Co.; PWS #04011 Freeport McMoran – Miami; PWS #07740 West Phoenix Estates - 6; PWS #10357 Metropolitan DWID – Diablo Village; PWS #07099 EPCOR Water – Sun City; PWS #07500 City of Surprise – Mountain Vista; PWS #07683 New River School; PWS #10112 City of Tucson; PWS #11078 Resolution Copper Co.; PWS #11185 Nissan Technical Drivers Center; PWS #12035 Elgin School; PWS #14083 USMC Air Stat Cannon; PWS #02107 Sandy's Short Stop; PWS #02321 Chemical Lime Company of Arizona; PWS #04006 Strawberry Water Company; PWS #07052 Sabrosa Water Company; PWS #07258 Fuelco No. 111; PWS #07292 Conde Enterprises; PWS #10051 Flowing Wells Irrigation District; PWS #20012 Catalina Mountain School; PWS #20133 Pioneer Sand and Gravel; PWS #20549 USAF Davis Monthan AFB; PWS #20583 Tucson Electric Power; and PWS #10411 Tierra Linda HOA.

The target for **del. 6**, to evaluate the most prevalent and most threatening potential sources of contamination was met (June 2014), and there was no change to the existing list.

The target for **del. 8**, assist public water systems to identify protection strategies and to implement those strategies, was exceeded with five. Five Source Water Protection plans were completed for the five schools listed under deliverable 2. In addition, we collaborated to assist other systems via the annual Rural Water Association of Arizona (RWAA) meeting on 3/18/14. In attendance were Jason Long, RWAA, Donna Calderon and Victor Scherer, ADEQ, and Mike Luecker, USDA-Rural Development.

Finally, the target for **del. 9**, assist community water systems in achieving minimized risk to public health, where risk to public health is minimized by source water protection, was not met. Targets are our goals; however, the actual numbers achieved rely on the willingness and ability of public water systems to participate in the voluntary source water protection program, therefore, the target for FY15 has been kept the same (one), to reflect this obstacle. Despite this obstacle, we have been working with PWS ID# 15497, Ehrenberg Improvement Association Water Department, on developing a SWPP which we are aiming to complete by the end of the 2Q15. We continue to patiently wait for the City of Holbrook to show some activity on their SWPP and are currently trying to determine if enough regional hydrologic data is available for their wells to model the area utilizing the Wellhead Analytic Element Model (WhAEM) modeling program. This will be a slow undertaking and involves working with their hydrologist to coordinate the availability of data..

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| GOAL #2: Protecting America’s Waters |   | Program #4400: Underground Water Regulation<br>Program #4500: Surface Water Regulation       |                                  |
|--------------------------------------|---|--|----------------------------------|
| Objective 2.1: Protect Human Health. |   |  |                                  |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL                            | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.2.1                                | <p><b>TASK: Groundwater Protection – Permits</b></p> <p>Carry out Arizona’s groundwater protection program to protect drinking water uses of the aquifer. Maintain compliance with these programs through effective permitting in accordance with Department practice and policies.</p> <p>Assist individual wastewater systems to improve operations on site.</p> <p>Continue to communicate with EPA on groundwater related issues.</p> <p><b>DELIVERABLES:</b></p> |  |                                  |
|                                      | <p>1) Make permitting decisions on Type 4 General Permit applications.</p> <p>a) Construction Authorizations</p> <p>b) Discharge Authorizations</p> <p>c) Provide technical support to WQIG on grant applications &amp; public education</p> <p>(NPS Objective 1.C.1)</p>   | <p>T =</p> <p>a) Quarterly A = 147</p> <p>b) Quarterly A = 142</p> <p>c) Quarterly A = 2</p> | <p>Groundwater Director</p>      |
|                                      | <p>2) Make permitting decisions on Certificates of Approval of Sanitary Facilities for Subdivisions applications.</p>   | <p>T = Quarterly A = 39</p>  | <p>Groundwater</p>               |
|                                      | <p>3) Continue to communicate with EPA on groundwater related issues via the APP Permits with Groundwater Related Issues Table following Task 1.2.1.</p> <p>(NPS Objective 1.C.1)</p>   | <p>T = Quarterly</p> <p>See Table 1.2.1</p>  | <p>Groundwater</p>               |

| FTE Funding Source            | FTE          | Personnel        | ERE            | Indirect       | Total            |
|-------------------------------|--------------|------------------|----------------|----------------|------------------|
| WQFF-APP                      | 15.78        | 724,153          | 318,627        | 496,468        | 1,539,248        |
| WQFF APP PWSS Federal {Match} | 7.51         | 381,090          | 167,680        | 261,269        | 810,039          |
| WQFF-APP NPS in PPG {Match}   | 2.20         | 120,119          | 52,852         | 82,352         | 255,323          |
| WQFF-APP PPG {Match}          | 0.41         | 28,957           | 12,741         | 19,852         | 61,551           |
| <b>TOTALS</b>                 | <b>25.90</b> | <b>1,254,319</b> | <b>551,900</b> | <b>859,941</b> | <b>2,666,161</b> |



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### TASK 1.2.1, DELIVERABLE 3 - APP PERMITS WITH GROUNDWATER RELATED ISSUES

| PROJECT NAME                            | DESCRIPTION  | STATUS   |
|---|--|--|
| GreenFire Energy                        | Proposed project to tap naturally-occurring CO <sub>2</sub> (~10,000' bgs) near Springerville, Arizona for pilot project to produce geothermal energy. Company has had discussions with WESTCARB regarding potential CO <sub>2</sub> sequestration testing at this project. No permit. | No activity 1 <sup>st</sup> through 4 <sup>th</sup> quarters, FY14.  |
| Kinder Morgan                           | Kinder Morgan plans to develop the St Johns Gas Unit as a major supplier of CO <sub>2</sub> for enhanced recovery of oil and natural gas.  | Scheduled to have a pre-app meeting with ADEQ on July 17, 2014, to discuss permitting of proposed disposal wells and the closure of nine injection wells.  |
| Morton Salt                             | Glendale, AZ. Salt is mined from Luke Salt Body via solution mining wells. Existing Individual APP (Permit #100176).   | Other amendment LTF 56338 was issued on September 24th, 2013, to correct mercury limits in point of compliance well POC-SW, revise pond freeboard requirements and make miscellaneous permit corrections and updates.<br><br>Significant amendment application (LTF 58651) was submitted January 22, 2014, to clarify permit language and limits for pond freeboard levels, clarify required berm heights, allow for receipt of brine from Plains LPG and eliminate fissure monitoring requirements. The permit Public Notice ended 6/29/2014, and the permit will be granted soon |
| Florence In Situ Project (Curis Copper) | Temporary Individual APP (TIP) 106360 (LTF 55656) issued on September 28, 2012.<br>Other amendment issued for TIP 106360 (LTF 58398) on July 3, 2013.  | Four parties have appealed the Department decision to issue the TIP to the Water Quality Appeals Board. Appeal hearing held at the Office of Administrative Hearings on March 18 through April 9, 2014. A decision is expected in September 2014.  |
| BHP Miami                               | APP to include injection well field. Existing Individual APP Permit #101546.   | No activity 1 <sup>ST</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> and 4 <sup>th</sup> quarter FY14. Permit has not been issued.  |

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### TASK 1.2.1, DELIVERABLE 3 - APP PERMITS WITH GROUNDWATER RELATED ISSUES (Cont'd)

|   |   |   |
|---|---|---|
| City of Sedona Wastewater Reclamation Plant – Injection Test Well | Application submitted to request a Temporary Aquifer Protection Permit (TIP) in accordance with R18-9-A210 for conducting injection testing at the Sedona Wastewater Reclamation Plant (WWRP) using Class A+ reclaimed water (Permit 511189, LTF 57139) | <p>TIP signed on October 4<sup>th</sup>, 2013. Received comments on the permit from the Sierra Club. ADEQ Responsiveness Summary was sent on March 18, 2014.</p> <p>ADEQ is expecting an application to amend the permit to add recharge wells and to convert the temporary well to a recharge well. Pre application meeting was held with ADEQ on 6/02/2014.</p> |
|---|---|---|

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| GOAL #2: Protecting America’s Waters |  | Program #4900: Drinking Water Regulation<br>Program #4400: Underground Water Regulation                              |                                  |
|--------------------------------------|--|--|----------------------------------|
| Objective 2.1: Protect Human Health. |  |  |                                  |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.2.2                                | <p><b>TASK: Groundwater Source Protection</b></p> <p>Implement measures to protect Arizona aquifers that serve as drinking water sources.</p> <p>Provide hydrologic support to evaluate proposed mitigation measures for non-hazardous substances in groundwater that have impaired or will impair the use of a drinking water source.</p> <p>Maintain drywell database.</p> <p><b>DELIVERABLES:</b></p> |  |                                  |
| Wellhead                             | <p>1) Drywell registrations:</p> <p>a) Register existing and new dry wells (Class V injection wells)</p> <p>b) Evaluate wells to determine potential impact from waste disposal activities in drainage area to assess need for APP</p>   | <p>T = Quarterly</p> <p>a) <b>A = 1768</b></p> <p>b) <b>Comment</b></p>  | Groundwater                      |
| Wellhead                             | <p>2) Evaluate potential for adverse impacts to groundwater quality resulting from recharge through injection wells, recharge basins or other means. (Refer to Recharge Facility Reviews Table following Task 1.2.2.)</p>  | <p>T = Within ADWR Timeframes</p> <p>See Table 1.2.2</p>   | Groundwater                      |
|                                      | <p>3) Manage the Pesticide Contamination Prevention Program</p> <p>a) Evaluate potential for agricultural use pesticide active ingredients to reach and/or impact groundwater</p> <p>b) Publish the annual Groundwater Protection List (GWPL)</p> <p>c) Educate industry in proper practices for use of GWPL listed active ingredients</p> <p>(NPS Objective 1.C.1)</p>                                  | <p>T =</p> <p>a) Quarterly <b>A = 36</b></p> <p>b) 12/31/13 <b>A = 8/8/13</b></p> <p>c) Quarterly <b>Comment</b></p> | Groundwater                      |

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|                                      |   |   |                                  |
|--------------------------------------|---|---|----------------------------------|
| GOAL #2: Protecting America’s Waters |   | Program #4900: Drinking Water Regulation<br>Program #4400: Underground Water Regulation |                                  |
| Objective 2.1: Protect Human Health. |   |   |                                  |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL                       | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.2.2                                | TASK: Groundwater Source Protection (Cont’d)<br><br>DELIVERABLES: |   |                                  |

| FTE Funding Source               | FTE         | Personnel      | ERE            | Indirect       | Total          |
|----------------------------------|-------------|----------------|----------------|----------------|----------------|
| WQFF-APP                         | 0.25        | 14,125         | 6,215          | 9,684          | 30,024         |
| WQFF-APP PPG {Match}             | 0.50        | 24,675         | 10,857         | 16,917         | 52,449         |
| WQFF-APP PWSS Federal<br>{Match} | 0.17        | 8,389          | 3,691          | 5,751          | 17,831         |
| WQFF-APP NPS in PPG {Match}      | 0.92        | 51,436         | 22,632         | 35,264         | 109,332        |
| Wellhead                         | 3.01        | 155,614        | 68,470         | 106,686        | 330,771        |
| <b>TOTALS</b>                    | <b>4.85</b> | <b>254,239</b> | <b>111,865</b> | <b>174,302</b> | <b>540,407</b> |

### Hydrologic Support provided:

Sierrita Mitigation Order: ADEQ met with FMI Sierrita on December 6, 2013, to discuss the completion of the groundwater mitigation action. The Sierrita Mitigation Plan was submitted to ADEQ on December 23, 2013. The Mitigation Plan and Operation and Maintenance Plan are currently being reviewed. The Technical Specifications, Extraction Well Drilling and Installation of Interceptor Well IW-29 was received on December 2, 2013, and was commented on February 3, 2014. IW-29 was installed to enhance capture of sulfate contamination on the southeast corner of the sulfate plume. On January 30, 2014, ADEQ staff attended the official "ribbon cutting ceremony" for the official start-up of the groundwater mitigation of the sulfate plume. The system includes 29 interceptor wells and 14 plume stabilization and mass capture wells to begin controlling the sulfate plume. The wells pump at an approximate rate of 14,330 gallons per minute. The 4<sup>th</sup> Quarter 2012 and First Quarter 2012 Semi-Annual Groundwater Monitoring report review was completed on February 11, 2014. The 1<sup>st</sup> Quarter 2014 Status Report and 2013 Well Field Operations Performance Technical Memorandum Report were received on April 1, 2014, and reviewed by May 12, 2014.

Bisbee Mitigation Order: ADEQ met on July 23, 2013, with Copper Queen Branch (CQB) and the Arizona Water Company (AWC) on the draft Feasibility Study (FS) that was being prepared by FMI Bisbee. The draft FS was received on July 30, 2013, and the review was complete on December 10, 2013. The 1<sup>st</sup> Quarter and 2<sup>nd</sup> Quarter 2013 Groundwater Monitoring Reports were reviewed by February 11, 2014. ADEQ and CQB conducted a conference call on January 23, 2014, to discuss ADEQ's Comments on the draft FS. ADEQ met with FMI CQB to discuss their responses to ADEQ's comments and discuss the path forward to begin drafting the Mitigation Plan. The 1<sup>st</sup> Quarter 2014 Groundwater Monitoring Report was reviewed on May 12, 2014. The Response to ADEQ's Draft FS comments, a revised FS and the Mitigation Plan were received on May 30, 2014, and are currently under review.

**Del. #1 – Drywell registrations:** Along with each of the 1768 drywells registered, ADEQ asks for a report of activities in the drainage area of the drywell. If the drywell drains certain areas, a letter is sent advising they need an APP.

**Del. #3 - Pesticides:** Reviewed and approved 21 biopesticide waivers and 15 active ingredients for the year. Presented an update on the state of the program to the Western Plant Health Association (WPHA) on May 1, 2014. Created Standard Operating Procedures (SOPs) for Waiver and New Active Ingredient Reviews, external reviews by the Arizona Department of Agriculture and the WPHA and had a training session on June 16, 2014, with ADEQ technical staff. **Del. #3c:** It is the Dept. of Agriculture that provides education to the industry on how to use pesticides/active ingredients.

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### TASK 1.2.2, DELIVERABLE #2 – RECHARGE FACILITY REVIEWS

| ADEQ HAS MET WITH ADWR AND/OR APPLICANTS REGARDING FACILITIES WITH ADWR USF APPLICATIONS IN PROCESS. |   |   |
|--|---|---|
| PROJECT NAME   | DESCRIPTON  | STATUS  |
| City of Sedona WWTP  | Near Sedona, Yavapai County, AZ. Existing APP (Permit P-102298). Effluent is discharged to constructed wetlands.  | The permittee intends to perform an effluent injection test at the city's WWTP. An "Other" amendment (LTF 56644) was issued on 9/13/13. COMPLETED   |
| City of Casa Grande WWTP Recharge Project (ADWR USF permit application also)                         | Near Casa Grande, Pinal County, AZ. In-channel discharge will be replaced by recharge basins for effluent recharge. Existing Individual APP (Permit P-106362) | Casa Grande has submitted an application (LTF 55820) for a constructed recharge project and has submitted an Underground Storage Facility Permit application to ADWR. APP issued 10/4/13. COMPLETED   |
| City of Phoenix Cave Creek ASR-1 (USF Application)   | Cave Creek, Maricopa Co., AZ. Recharge of CAP water through an injection well located at the City of Phoenix Cave Creek Water Reclamation Plant.              | Application received by ADWR on 7/17/13. Advisory memo issued to ADWR on 8/8/13 with deficiencies for inclusion in ADWR "complete and correct" determination. Additional memo sent to ADWR on 11/27/13. Certification letter (A.R.S. §45-811.01.C.5) sent to ADWR on 12/16/13. No APP application required. COMPLETED |
| Project RENEWS USF Application, JPAR, LLC  | Near Green Valley, Pima County. CAP water to be recharged to two recharge basins. 3,000 acre-feet/year.   | Application received by ADWR on 6/13/13. Advisory memo issued to ADWR on 7/23/13 with deficiencies for inclusion in ADWR "complete and correct" determination. Additional memo sent to ADWR on 10/17/13. Certification letter (A.R.S. §45-811.01.C.5) sent to ADWR on 1/3/14. No APP application required. COMPLETED  |
| Central Avra Valley Storage and Recovery Project (Amendment to the existing USF Permit)              | Recharge of CAP water to basins owned by Tucson Water in the central Avra Valley, west of Tucson. Request for increase in storage capacity.                   | Application received by ADWR on 3/26/14, and referred to ADEQ on 4/7/14. Advisory memo issued to ADWR on 5/16/14 with deficiencies for inclusion in the ADWR "complete and correct" determination (A.R.S. §45-814.01.F).  |

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### **TASK 1.2.2, DELIVERABLE #2 – RECHARGE FACILITY REVIEWS (Cont'd)**

|  |   |  |
|--|---|--|
| Southern Avra Valley Storage and Recovery Project (Amendment to the existing USF Permit) | Recharge of CAP water to basins owned by Tucson Water in the southern Avra Valley, west of Tucson. Request for increases in recharge capacity and storage capacity. | Application received by ADWR on 3/26/14, and referred to ADEQ on 4/7/14. Advisory memo issued to ADWR on 5/16/14 with deficiencies for inclusion in the ADWR “complete and correct” determination (A.R.S. §45-814.01.F). |
|--|---|--|

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| GOAL #2: Protecting America’s Waters                              |  | Program #4500: Surface Water Regulation   |                 |       |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
|---|--|---|-----------------|-------|--|--|---------------------------------------|-----|-----|-----------------|-------|---|---|----|---|----|--|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  |   |                 |       |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  |                 |       |  |  | RESPONSIBLE SECTION/<br>STAFF         |     |     |                 |       |   |   |    |   |    |  |
| 1.3.1   | <b>TASK: Arizona Pollutant Discharge Elimination System (AZPDES)</b><br><br>Carry out federal and state statutory requirements of the Arizona Pollutant Discharge Elimination System program to ensure discharges to surface waters will not degrade or impair water quality. Maintain compliance through effective permitting in accordance with Department practices and policies.<br><br><b>DELIVERABLES:</b> |   |                 |       |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
|   | 1) Process AZPDES permit actions including issuance, modifications, denial, suspension, or revocation.<br>a) Report status of permit processing.<br>b) Coordinate with EPA on variance approval process and strategy.  | T = <b>Comment</b><br><br>a) <table><tr><td>1st</td><td>2nd</td><td>3rd</td><td>4<sup>th</sup></td><td>total</td></tr><tr><td>6</td><td>4</td><td>17</td><td>7</td><td>34</td></tr></table><br>b) Quarterly |                 |       |  |  | 1st                                   | 2nd | 3rd | 4 <sup>th</sup> | total | 6 | 4 | 17 | 7 | 34 | Surface Water<br><b>Water Permits</b><br>Director<br>SRO |
| 1st   | 2nd  | 3rd   | 4 <sup>th</sup> | total |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
| 6   | 4  | 17  | 7               | 34    |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
|   | 2) Process permit renewals for all expiring AZPDES permits with a goal of 90% current to minimize ‘backlog.’*  | T = Quarterly<br><b>A = 5%; Comment</b>   |                 |       |  |  |                                       |     |     |                 |       |   |   |    |   |    |  |
| PPG   | 3) Develop new AZPDES facility general permits.<br>a) Complete stakeholder process and issue new AZ general permits for discharges from groundwater remediation systems.<br>b) Initiate stakeholder process for additional new AZPDES general permits for discharges to urban lakes/riparian habitat:  | T = <b>Comment</b><br>a) 12/13<br><br>b) 6/14   |                 |       |  |  | Surface Water<br><b>Water Permits</b> |     |     |                 |       |   |   |    |   |    |  |
| PPG   | 4) Phase I MS4 Permits:<br>a) MS4 Permits – Review, evaluate and respond to updated SWMPs<br>b) Process permit renewal of ADOT MS4   | a) T = 8<br><br>b) T = 6/14 <b>Comment</b>  |                 |       |  |  | Surface Water                         |     |     |                 |       |   |   |    |   |    |  |
| PPG   | 5) Implement activities for MS4 Permittees<br>a) Phase I<br>i) Conduct one audit of each permittee once every five years<br>ii) Conduct inspections on an as-needed basis<br>b) Phase II<br>i) Perform one audit of each permittee once every seven years<br>ii) Conduct inspections on an as-needed basis.  | T =<br><br>ai) 0<br><br>bi) 8 <b>A = 8; Comment</b>   |                 |       |  |  | Surface Water                         |     |     |                 |       |   |   |    |   |    |  |
|   | 6) MS4 Phase II General Permit renewal stakeholder process<br>a) Continue stakeholder process for MS4 Phase II General Permit<br>b) Prepare draft permit for public comment.   | T = <b>Comment</b><br>a) Ongoing<br><br>b) 6/14   |                 |       |  |  | Surface Water                         |     |     |                 |       |   |   |    |   |    |  |

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| GOAL #2: Protecting America’s Waters                              |  | Program #4500: Surface Water Regulation   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
|---|--|---|-----|-------|--|--|-------------------------------|--|--|--|--|----|----|----|----|-------|------|--|--|--|--|----|----|----|----|----|----|----|---|----|----|---|----|----|----|----|-----|--|--|--|--|-----|-----|-----|-----|------|-----|-----|-----|-----|------|---|----|----|----|----|------|--|--|--|--|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|-----|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  |     |       |  |  | RESPONSIBLE SECTION/<br>STAFF |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 1.3.1   | TASK: Arizona Pollutant Discharge Elimination System (AZPDES) – Cont’d.<br><br>DELIVERABLES:   |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
|   | 7) AZPDES General Permits – Review and process applications, annual reports, DMRs and SWPPPs. Report applications processed quarterly.<br>a) Multi-Sector General Permits – Report number of:<br>i) Notices of Intent<br>ii) Notices of Termination<br>iii) Certificate of Terminations No Exposure<br>b) Stormwater Construction General Permits – Report number of:<br>i) Notices of Intent<br>ii) Notices of Termination<br>iii) Waivers<br>c) DeMinimis General Permits – Report number of:<br>i) Notices of Intent<br>(1) Single source<br>(2) Area wide<br>ii) Notices of Termination<br>d) Pesticide General Permit – Report number of:<br>i) Notices of Intent<br>ii) Notices of Termination | <table><tr><th colspan="5">Quarterly</th></tr><tr><th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th><th>Total</th></tr><tr><td colspan="5">MSGP</td></tr><tr><td>23</td><td>28</td><td>21</td><td>22</td><td>94</td></tr><tr><td>12</td><td>13</td><td>9</td><td>12</td><td>46</td></tr><tr><td>7</td><td>24</td><td>18</td><td>20</td><td>69</td></tr><tr><td colspan="5">CGP</td></tr><tr><td>377</td><td>394</td><td>430</td><td>487</td><td>1688</td></tr><tr><td>441</td><td>412</td><td>369</td><td>452</td><td>1674</td></tr><tr><td>8</td><td>21</td><td>20</td><td>14</td><td>63</td></tr><tr><td colspan="5">DMGP</td></tr><tr><td>8</td><td>6</td><td>7</td><td>9</td><td>30</td></tr><tr><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td></tr><tr><td>5</td><td>4</td><td>7</td><td>8</td><td>24</td></tr><tr><td colspan="5">PGP</td></tr><tr><td>2</td><td>0</td><td>6</td><td>1</td><td>9</td></tr><tr><td>0</td><td>0</td><td>2</td><td>0</td><td>2</td></tr></table> |     |       |  |  | Quarterly                     |  |  |  |  | Q1 | Q2 | Q3 | Q4 | Total | MSGP |  |  |  |  | 23 | 28 | 21 | 22 | 94 | 12 | 13 | 9 | 12 | 46 | 7 | 24 | 18 | 20 | 69 | CGP |  |  |  |  | 377 | 394 | 430 | 487 | 1688 | 441 | 412 | 369 | 452 | 1674 | 8 | 21 | 20 | 14 | 63 | DMGP |  |  |  |  | 8 | 6 | 7 | 9 | 30 | 0 | 0 | 1 | 0 | 1 | 5 | 4 | 7 | 8 | 24 | PGP |  |  |  |  | 2 | 0 | 6 | 1 | 9 | 0 | 0 | 2 | 0 | 2 | Surface Water |
| Quarterly   |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| Q1  | Q2   | Q3  | Q4  | Total |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| MSGP  |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 23  | 28   | 21  | 22  | 94    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 12  | 13   | 9   | 12  | 46    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 7   | 24   | 18  | 20  | 69    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| CGP   |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 377   | 394  | 430   | 487 | 1688  |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 441   | 412  | 369   | 452 | 1674  |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 8   | 21   | 20  | 14  | 63    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| DMGP  |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 8   | 6  | 7   | 9   | 30    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 0   | 0  | 1   | 0   | 1     |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 5   | 4  | 7   | 8   | 24    |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| PGP   |  |   |     |       |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 2   | 0  | 6   | 1   | 9     |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |
| 0   | 0  | 2   | 0   | 2     |  |  |                               |  |  |  |  |    |    |    |    |       |      |  |  |  |  |    |    |    |    |    |    |    |   |    |    |   |    |    |    |    |     |  |  |  |  |     |     |     |     |      |     |     |     |     |      |   |    |    |    |    |      |  |  |  |  |   |   |   |   |    |   |   |   |   |   |   |   |   |   |    |     |  |  |  |  |   |   |   |   |   |   |   |   |   |   |               |

\* For purposes of this work plan, 'backlog' means an AZPDES application that is 6 mos. from expiration or a new application that has been in process over one year.



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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water Regulation                           |                                  |
|---|--|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.1   | TASK: Arizona Pollutant Discharge Elimination System (AZPDES) – Cont'd.<br><br>DELIVERABLES: |   |                                  |

| FTE Funding Source      | FTE          | Personnel      | ERE            | Indirect       | Total            |
|-------------------------|--------------|----------------|----------------|----------------|------------------|
| WQFF-AZPDES             | 10.94        | 509,776        | 224,301        | 349,494        | 1,083,572        |
| WQFF-AZPDES PPG {Match} | 3.00         | 157,860        | 69,458         | 108,226        | 335,545          |
| PPG                     | 0.74         | 44,435         | 19,551         | 30,464         | 94,450           |
| <b>TOTALS</b>           | <b>14.68</b> | <b>712,071</b> | <b>313,310</b> | <b>488,184</b> | <b>1,513,567</b> |

### Comments:

Del. #1: A total of 34 permits were issued this year: 31 renewals, one (1) new, and two (2) modifications. In addition, one (1) permit was denied, two (2) were terminated, and two (2) renewal applications were withdrawn and the permits expired. See table below for details on permits processed this year. Eight (8) permits are backlogged: 6 require variances and 2 have been granted. In addition, two Notices of Intent were processed for the new Biosolids General Permit.

Del. #2: The current backlog is 5% (95% of permits are current).

Del. #3: Off schedule and postponed indefinitely due to workload and staffing changes.

Del. #4: ADEQ completed stakeholder process with ADOT to prepare draft individual MS4 permit. Informal review of draft permit issued to ADOT and EPA July 11, 2014. **5a:** EPA is the lead on Phase I MS4 Audits and conducted one of two audits this FY (Pima County). **5b:** ADEQ conducted all eight of the Phase II MS4 audits for this FY through contract with PG Environmental. **6:** ADEQ has established a schedule for re-issuing the Phase II MS4 General Permit and held the first stakeholder meeting on May 21, 2014. The anticipated date to finalize and reissue the permit is June 2015.

**SRO (7):** In 2013, staff met with WQD Compliance staff in Phoenix on July 30, to discuss modifications to the AZPDES permit for the IBWC International Wastewater Treatment Plant (NIWWTP). Recommendations were forwarded to the permitting section in writing on August 5, and a second meeting occurred on August 20. Modifications were summarized in a presentation for SRO Compliance staff review on November 29. PowerPoint templates were developed in coordination with border stakeholders to improve binational communication regarding Ambos Nogales wastewater quality and pretreatment. In 2014, OBEP staff imported 4th quarter (2013) and 1st quarter (2014) wastewater quality monitoring data into AZPDES-required templates as a model and as a courtesy to IBWC. ADEQ then presented AZPDES requirements and water quality monitoring results at the Nogales Binational Technical Committee meeting hosted by IBWC on February 12 (See Task 1.5.1). Details were presented at the Arizona-Sonora Border 2020 Water Task Force on March 26, and again to the Association of Maquiladoras on April 4.

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| AZPDES Renewal Permits FY14                                      |                          |      |                 |                |              |          |   |
|--|--------------------------|------|-----------------|----------------|--------------|----------|---|
| Permittee  | AZPDES # AZ00--          | Type | Permit Exp date | Date appl. Due | Date App Rec | Proj Mgr |   |
| Asarco January Adit  | 25054                    | Min  | 12/30/2008      | 6/30/2008      | 7/1/2008     | MG       | Denied 9/30/2013  |
| One Camelback  | 23868                    | Min  | 12/21/2012      | 6/21/2012      | 6/21/2012    | SM       | Application withdrawn 6/30/2014.  |
| Phoenix, City of - Cave Creek WRP                                | 24465                    | Maj  | 5/6/2014        | 11/6/2013      | NA           |          | Permittee terminated permit on August 9, 2013   |
| Weiner Development - Cobre Valley Shopping Center                | 25097                    | Min  | 6/28/2014       | 12/28/2013     | NA           |          | Applicant hooked up to municipal sewer system, permit terminated.                                 |
| Pine Meadows Utility   | 24783                    | Min  | 9/18/2013       | 3/18/2013      | 3/18/2013    | SM       | Application withdrawn 11/21/13.   |
| Big Park Domestic WWID<br><b>BACKLOGGED</b>                      | 24082                    | Min  | 12/1/2010       | 06/01/10       | 5/26/2010    | JM       | Variance request package in process.  |
| US NPS GCNP - North Rim WWTP<br><b>BACKLOGGED</b>                | 110426                   | Min  | 1/23/2011       | 7/23/2010      | 7/16/2010    | RC       | Renewal of copper variance requested. Variance request package drafted for EPA and in mgmt review |
| US NPS GCNP - South Rim WWTP<br><b>BACKLOGGED</b>                | 22152                    | Min  | 2/24/2011       | 8/24/2010      | 8/24/2010    | RC       | Renewal of copper variance requested. Variance request package drafted for EPA and in mgmt review |
| Jerome, Town of<br><b>BACKLOGGED</b>                             | 21804                    | Min  | 10/23/2012      | 4/23/2012      | 4/18/2012    | RC       | Variance request package drafted for EPA and in mgmt review.                                      |
| Houston Creek Landing<br><b>BACKLOGGED</b>                       | 25305                    | Min  | 6/2/2013        | 12/2/2012      | 12/3/2012    | RC       | Drafting variance request package.  |
| Flagstaff Meadows WWTP (formerly Bellemont)<br><b>BACKLOGGED</b> | 24708                    | Min  | 7/24/2013       | 1/24/2013      | 2/13/2013    | CC       | Sub def ltr sent 5/8/13 re variance renewal.  |
| Cottonwood, City of  | 24716                    | Maj  | 5/6/2014        | 11/6/2013      | 11/7/2013    | JM       | Variance request package in process.  |
| ASARCO - Mission   | 24597                    | Min  | 11/18/2013      | 5/18/2013      | 5/17/2013    | CC       | Granted 6/24/2013.  |
| Palo Verde Utilities   | 25071                    | Maj  | 3/30/2014       | 9/30/2013      | 10/1/2013    | SM       | Granted 6/27/2014   |
| Bensch Ranch Estates   | 24813                    | Min  | 10/18/2012      | 4/18/2012      | 4/20/2012    | RC       | Granted 4/25/2013. Bill sent to AG.   |
| SRP - Santan Generating Plant                                    | 23558                    | Maj  | 12/14/2012      | 6/14/2012      | 6/8/2012     | SM       | <b>Signed/Eff 2/20/2014, Exp 2/19/2019</b>  |
| Pilot Travel Center #328   | 25658                    | Min  | 8/1/2012        | 2/1/2012       | 2/2/2012     | RC       | <b>Signed/Eff 12/04/2013, Exp 12/03/2018.</b>   |
| SRP Kyrene and K-7   | 24791 (combined w/23540) | Maj  | 8/24/2007       | 9/28/2012      | 3/30/2012    | RA       | <b>Signed/Eff 9/24/2013, Exp 9/23/2018.</b>   |

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|   |                    |     |            |            |            |    |  |
|---|--------------------|-----|------------|------------|------------|----|--|
| Arizona City Sanitary District WWTP                 | 24244              | Maj | 11/1/2012  | 5/1/2012   | 4/30/2012  | SM | Signed/Eff 7/26/2013, Exp 7/25/2018    |
| Superior Sanitary District WWTP                     | 21199              | Min | 11/6/2012  | 5/5/2012   | 5/2/2012   |    | Signed/Eff 7/11/2013, Exp 7/10/2018.   |
| Oracle Sanitary District WWTP                       | 20681              | Min | 9/11/2012  | 3/11/2012  | 5/11/2012  |    | Signed/Eff 9/13/2013, Exp 9/12/2018.   |
| Saddlebrooke Ranch WRP                              | 24775              | Min | 1/10/2013  | 7/10/2012  | 6/14/2012  | JM | Signed/Eff 7/11/2013, Exp 7/10/2018.   |
| City of Phoenix- Rio Salado Habitat Restoration     | 24554              | Min | 12/26/2012 | 6/26/2012  | 6/22/2012  | RC | Signed/Eff 10/01/2013, Exp 9/30/2018   |
| Nogales, City of - International WW Treatment Plant | 25607              | Maj | 12/24/2012 | 6/24/2012  | 5/23/2012  | CC | Signed/Eff 3/31/2014, Exp 3/30/2019.   |
| Balterra Sewer Co WWTP                              | 25585              | Min | 12/12/2012 | 6/12/2012  | 6/12/2012  | SM | Signed/Eff 1/07/2014, Exp 1/06/2019.   |
| Estates at Pine Canyon                              | 24902              | Min | 1/23/2013  | 7/23/2012  | 7/17/2012  | JM | Signed/Eff 2/5/2014, Exp 2/4/2019      |
| Freeport-McMoRan Bagdad Mine                        | 22268              | Maj | 2/1/2013   | 8/1/2012   | 8/3/2012   | CC | Signed/Eff 3/26/2014, Exp 3/25/2019.   |
| JRC Goodyear LLC                                    | 25747              | Min | 3/14/2013  | 9/14/2012  | 9/14/2012  | JM | Signed/Eff 10/04/2013, Exp 10/03/2018  |
| Phoenix, City of - Val Vista WTP                    | 23442              | Maj | 3/18/2013  | 9/18/2012  | 9/18/2012  | JM | Signed/Eff 3/20/2014, Exp 3/19/2019.   |
| Phoenix, City of - Deer Valley WTP                  | 23434              | Maj | 4/17/2013  | 10/17/2012 | 10/18/2012 | SM | Signed/Eff 12/19/2013, Exp 12/18/2018. |
| Safford- Gila Resources                             | 24911              | Maj | 5/5/2013   | 11/5/2012  | 11/5/2012  | CC | Signed/Eff 1/28/2014, Exp 1/27/2019.   |
| Phoenix, City of – 24 <sup>th</sup> St WTP          | 23426              | Maj | 5/19/2013  | 11/19/2012 | 11/9/2012  | SM | Signed/Eff 5/13/2014, Exp 5/12/2019.   |
| Sundance WWTP- Buckeye                              | 24881              | Maj | 5/30/2013  | 11/30/2012 | 12/11/2012 | RC | Signed/Eff 2/14/2014, Exp 2/13/2019    |
| City of Williams new WWTP                           | 25755              | Min | 6/2/2013   | 12/2/2012  | 11/30/2012 | JM | Signed/Eff 4/16/2014, Exp 4/15/2019.   |
| Hassayampa Ranch                                    | 25453              | Maj | 6/20/2013  | 12/20/2012 | 12/19/2012 | RA | Signed/Eff 2/20/2014, Exp 2/19/2019    |
| Avondale, City of - Wastewater Plant                | 23281              | Maj | 7/14/2013  | 1/14/2013  | 12/24/2012 | RA | Signed/Eff 1/22/2014, Exp 1/21/2019.   |
| Litchfield Park Service Co - Palm Valley WRF        | 25712              | Maj | 7/14/2013  | 1/14/2013  | 1/14/2013  | CC | Signed/Eff 3/20/2014, Exp 3/19/2019.   |
| Winkelman, Town of                                  | 20176              | Min | 10/10/2013 | 4/10/2013  | 4/15/2013  | JM | Signed/Eff 3/26/2014, Exp 3/25/2019.   |
| Cooper and Commerce WQARF Site                      | 25801              | Min | 11/23/2013 | 5/23/2013  | 5/17/2013  | SM | Signed/Eff 2/3/2014, Exp 2/2/2019.     |
| Casa Grande, City of WWTP                           | 25178 (FKA: 21873) | Maj | 11/25/2013 | 5/25/2013  | 5/25/2013  | JM | Signed/Eff 3/21/2014, Exp 3/20/2019.   |
| BHP - Pinto Valley Division                         | 20401              | Maj | 11/27/2013 | 5/27/2013  | 5/21/2013  | CC | Signed/Eff 5/29/2014, Exp 5/28/2019.   |

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|   |       |     |            |            |            |    |  |
|---|-------|-----|------------|------------|------------|----|--|
| Tucson Electric - North Loop Generating           | 24821 | Min | 12/29/2013 | 6/29/2013  | 6/28/2013  | RA | <b>Signed/Eff 2/4/2014, Exp 2/3/2019.</b>  |
| Pima County - Avra Valley WWTP                    | 24121 | Maj | 1/4/2014   | 7/4/2013   | 6/20/2013  | SM | <b>Signed/Eff 6/23/2014, Exp 6/22/2019.</b>  |
| Goodyear - Rainbow Valley                         | 25135 | Maj | 4/7/2014   | 10/7/2013  | 10/4/2013  | RC | <b>Signed/Eff 6/23/2014, Exp 6/22/2019.</b>  |
| Butler WRF aka S. Peoria Water Reclamation        | 25119 | Maj | 5/4/2014   | 11/4/2013  | 10/10/2013 | RA | <b>Signed/Eff 5/7/2014, Exp 5/6/2019.</b>  |
| Pima County – Agua Nuevo WRF(aka Pima County WRF) | 26107 | Maj | 4/20/2012  |            |            | CC | <b>Signed/Eff 7/11/2013, Exp 7/10/2018.</b>  |
| Phoenix, City of - 23rd Avenue WWTP               | 20559 | Maj | 5/4/2014   | 11/4/2013  | 11/5/2013  | RA | Public Notice ends 7/28/2014.  |
| Superstition Mountains CFD WWTP                   | 23931 | Maj | 5/13/2014  | 11/13/2013 | 11/22/2013 | JM | Public Notice in process.  |
| ASARCO - Ray Mine Unit                            | 00035 | Maj | 5/27/2014  | 11/27/2013 | 12/3/2013  | CC | Drafting permit. Discharge tunnel has newly observed high Cu that needs to be evaluated.   |
| Cave Creek, Town of – Cave Creek WRF              | 25828 | Min | 6/28/2014  | 12/28/2013 | 12/27/2013 | RA | Public Notice ends 6/30/2014.  |
| City of Mesa Northwest WRF                        | 24031 | Maj | 12/3/2014  | 6/3/2014   | 1/9/2014   | JM | Public Notice in process.  |
| Chimney Ranch                                     | 25925 | Min | 6/28/2014  | 12/28/2013 | 1/16/2014  | JM | Drafting permit.   |
| Frito-Lay   | 25798 | Min | 7/8/2014   | 1/8/2014   | 1/28/2014  | SM | External Review began 6/26/2014.   |
| Buckeye, Town of-Festival Ranch                   | 25216 | Maj | 7/26/2014  | 1/26/2014  | 1/27/2014  | RC | On hold for consent agreement re zinc exceedances. Met with the applicant 2/26/14 - may request WER or add recharge well and terminate permit. |
| Bureau of Reclamation - Hoover Dam                | 25160 | Min | 8/17/2014  | 2/17/2014  | 2/18/2014  | RA | Permit drafted and in review.  |
| Buckeye, Town of – Central Buckeye WWTP           | 25313 | Maj | 8/20/2014  | 2/20/2014  | 3/7/2014   | RC | Drafting permit.   |
| Gila Bend, Town of WWTP                           | 20231 | Min | 9/8/2014   | 3/8/2014   | 4/03/2014  |    | Drafting permit.   |
| Lower Pinal Creek Water Treatment Plant           | 24350 | Min | 9/9/2014   | 3/9/2014   | 3/4/2014   | CC | Public Notice in process.  |
| ADOC – Eyman WWTP                                 | 23485 | Min | 10/15/2014 | 4/15/2014  | 4/15/2014  |    | Drafting permit.   |
| Flagstaff, City of - Rio de Flag Plant            | 23639 | Maj | 10/15/2014 | 4/15/2014  | 4/2/2014   |    | Permit drafted and in review.  |
| Patagonia, Town of (new plant)                    | 25011 | Min | 10/15/2014 | 4/15/2014  | 4/4/2014   |    | Drafting permit.   |
| Willcox, City of                                  | 25771 | Min | 10/15/2014 | 4/15/2014  | 4/21/2014  |    | Permit drafted and in review.  |
| Flagstaff, City of - Wildcat Hill WWTP            | 20427 | Maj | 11/18/2014 | 5/18/2014  | 5/9/2014   |    | Drafting permit.   |

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|  |                        |             |                      |           |              |                 |   |
|--|------------------------|-------------|----------------------|-----------|--------------|-----------------|---|
| Chaparral City Water Company                   | 22381                  | Min         | 11/18/2014           | 5/18/2014 | 5/22/2014    |                 | Permit drafted and in review.   |
| Sanders Unified School District                | 24422                  | Min         | 11/18/2014           | 5/18/2014 | NA           |                 | Will not renew  |
| Continental Country Club                       | 25895                  | Maj         | 11/18/2014           | 5/18/2014 | 5/1/2014     |                 | Drafting permit.  |
| High Country Pines II                          | 24279                  | Min         | 11/23/2014           | 5/23/2014 | N/A          |                 | Will not renew individual permit. NOI for Minor WWTP submitted on 5/23/2014 |
| Mesa, City of - Southeast WRF                  | 25151                  | Maj         | 12/17/2014           | 6/17/2014 | 6/17/2014    |                 | Drafting permit.  |
| Bison Ranch WWTP (aka Bisontown LLC)           | 25399                  | Min         | 12/17/2014           | 6/17/2014 | Not received |                 | Late  |
| Willow Springs WRF                             | 25852                  | Min         | 12/17/2014           | 6/17/2014 | NA           |                 | Will not renew  |
| Somerton, City of - WWTP                       | 25186                  | Maj         | 12/20/2014           | 6/20/2014 | Not received |                 | Late  |
| PVNGS Water Supply Pipeline                    | 25836                  | Min         | 12/20/2014           | 6/20/2014 | 6/19/2014    |                 | Drafting permit.  |
| Arizona Dept of Transportation (ADOT)          | AZS000018-2008         | MS4         | 9/18/2013            | 3/18/2013 |              |                 | Draft permit sent to ADOT July 11, 2014                                     |
| Phase II MS4s                                  |                        |             |                      |           | NA           |                 | Phase II Stakeholder meetings began on May 21, 2014.                        |
| <b>NEW AZPDES PERMIT APPLICATIONS</b>          |                        |             |                      |           |              |                 |   |
| <b>Applicant</b>                               | <b>AZPDES # AZ00--</b> | <b>Type</b> | <b>Date Received</b> |           |              | <b>Proj Mgr</b> | <b>Permit Status</b>  |
| Tempe Town Lake<br>** carryover                | 24490                  |             |                      |           |              |                 | Letter will be sent to Tempe requesting new application.                    |
| <b>AZPDES PERMIT MODIFICATION APPLICATIONS</b> |                        |             |                      |           |              |                 |   |
| <b>Applicant</b>                               | <b>AZPDES # AZ00--</b> | <b>Type</b> | <b>Date Received</b> |           |              | <b>Proj Mgr</b> | <b>Permit Status</b>  |
| City of Flagstaff Wildcat Hill WWTP            | 20427                  | Maj         | 6/25/2013            |           |              | JM              | <b>Signed/Eff 1/07/2014.</b>  |
| Pima Co – Ina Rd (aka Tres Rios WRF)           | 20001                  | Maj         | 7/24/2013            |           |              | CC              | <b>Signed/Eff 1/22/2014.</b>  |

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| GOAL #2: Protecting America’s Waters Regulation                   |   | Program #4500: Surface Water  |                                  |
|---|---|---|----------------------------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.2   | <p><b>TASK: CWA 401 Certification Review of Federal Permits and Licenses</b></p> <p>Conduct CWA §401 Certification program to ensure activities being proposed for federal permits or licenses will meet surface water quality standards.</p> <p><b>DELIVERABLES:</b></p>   |   |                                  |
| PPG   | <p>1) Provide table of certifications processed. Refer to 401 Certification Actions Table following Task 1.3.2. Table will contain: type of permit, project name/project number, action and date of action:</p> <p>a) Regional CWA 404 general permits</p> <p>b) Individual CWA 404 permits</p> <p>c) Nationwide CWA 404 permits</p> <p>d) Other federal permit or licenses applications.</p> | <p>T = Quarterly      <b>Comment</b></p> <p>See Table 1.3.2</p> <p>a) 0</p> <p>b) 14</p> <p>c) 25</p> <p>d) 0</p> | Surface Water                    |

| FTE Funding Source | FTE         | Personnel     | ERE           | Indirect      | Total         |
|--------------------|-------------|---------------|---------------|---------------|---------------|
| PPG                | 0.67        | 31,481        | 13,852        | 21,583        | 66,916        |
| <b>TOTALS</b>      | <b>0.67</b> | <b>31,481</b> | <b>13,852</b> | <b>21,583</b> | <b>66,916</b> |

49 applications were processed. 3 applications were withdrawn, 5 previously issued certifications required modification and 3 were withdrawn.

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| <b>Project/Applicant</b>  | <b>Issued Date</b> | <b>Type</b> | <b>Notes</b>                                   | <b>CoE Number</b>    |
|---|--------------------|-------------|--|----------------------|
| Belgravia Tailings - Waterline Relocate Project, ASARCO, Duane Yantorno       | 7/2/13             | NWP 12      | waiver of individual 401<br>impaired water D/S | 2012-425-RJD         |
| HANG 2 Transmission line, APS, Les Rainey                                     | 7/3/13             | NWP 12      | waiver of individual 401<br>impaired water D/S | non-notifying        |
| MCFCF-Loop 303 Outfall Channel, Bob Stevens                                   | 7/9/13             | NWP 7       | waiver of individual 401<br>impaired water D/S | SPL-2011-731-AP      |
| Ray Mine Selenium Reduction Project - ASARCO, Duane Yantorno                  | 7/18/13            | NWP 5       | waiver of individual 401<br>impaired water D/S | SPL-1990-4008400-RJD |
| Avenida Rio Salado/Broadway Rd, CoP, Mark Glock                               | 7/24/13            | NWP 14      | waiver of individual 401<br>impaired water D/S | SPL-2012-00272-MWL   |
| Low water xing - Tonto NF - FH12-SR288, Reynolds Creek                        | 8/20/13            | individual  | Pub. Not issued 8/1/13                         | 2012-911-RJD         |
| Low water xing - Tonto NF - FH51-Control Rd, Thompson Draw                    | 8/12/13            | NWP 14      | waiver; CoE approves NWP                       | 2012-910-RJD         |
| Low water xing - Tonto NF - FH52-Houston Mesa Rd, East Verde River (northern) | 8/12/13            | NWP 14      | waiver; CoE approves NWP                       | 2012-909-RJD         |
| Low water xing - Tonto NF - FH52-Houston Mesa Rd, East Verde River (southern) | 8/20/13            | individual  | Pub. Not issued 8/1/13                         | 2012-908-RJD         |
| US 180 Columbus - Snow Bowl - ADOT Audra Merrick, John Wennes                 | 9/6/13             | individual  |  | SPL-2013-00486-KAT   |
| Canyon Creek Aquatic Habitat Restore, AZ G & F, Josh Avey, Curtis Gill        | 8/28/13            | NWP 27      | waiver of individual 401                       | SPL-2011-696-RJD     |
| Reg. Genl Permit 6 - Sacramento Div CoE, Patricia McQueary                    | 9/19/13            | individual  | signed 9/16/13                                 | SPK-2004-50130       |

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|   |          |             |   |                    |
|---|----------|-------------|---|--------------------|
| SR 188 - Roosevelt - Punkin Cntr - culvert replace - ADOT, Jesse Gutierrez, Michelle Harris | 9/17/13  | NWP 14      | waiver of individual 401 impaired water D/S         | SPL-2013-597-KAT   |
| SR 89A - MP 385.1 - Oak Creek Canyon Bank Protection, ADOT: Audra Merrick, Michelle Harris  | 9/23/13  | NWP 3       | waiver of individual 401 OAW & not-attain: e. coli. | SPL-2010-1017-KAT  |
| I-8 Santa Rosa Wash Bridges - Scour Protection ADOT: Roderick Lane, Steve Olmstead          | 10/2/13  | individual  |   | SPL-2012-633-KAT   |
| PRM Gravel Pit, Bob Strom   | 11/21/13 | individual  | Awaiting Public Notice for 15 months                | SPL-2007-1460-SDM  |
| Deer Valley Rd Agua Fria Crossing, MCDOT, Sami Ayoub  | 10/8/13  | individual  |   | SPL-2010-00884-AP  |
| RGP 63 - Emergency Situations   | 10/24/13 | individual  | Sent to ADEQ 1.5 months after issue.                | SPL-2013-00609-BAH |
| RGP 70 - Bioengineered Bank Stabilization   | 10/24/13 | individual  |   | SPL-2007-00169-CLH |
| SR 77 - Araviapa Ck. Bridge # 399   | 10/22/13 | NWP 14 & 33 | waiver of individual 401 impaired water D/S         | SPL-2011-935-KAT   |
| Patagonia Lake SP - Boulder Beach Replenish.  | 10/25/13 | NWP 18      | waiver of individual 401 impaired water             | non-notifying      |
| BoR Fish Barrier  | 10/30/13 | mod         | extension   | SPL-2000-01742-MB  |
| Tempe Town Lake D/S Dam Replacement, Chris Kabala   | 12/9/13  | individual  |   | SPL-2012-00921-WHM |
| Dice #8 Placer Mine   | 12/4/13  | withdrawal  | No Fed permit or license                            |                    |
| Santa Cruz Wash Improvements  | 12/5/13  | withdrawal  | No Fed permit or license                            | SPL-2013-00353-KAT |
| Estrella Mtn. Ranch   | 1/9/14   | mod         | extension   | SPL-1997-4052500   |
| Upper Camelback Wash Drainage Improvements / Scottsdale, Derek Earle                        | 1/22/14  | withdrawal  | Used NWP instead of individual.                     | SPL-2007-505-AP    |



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|  |         |            |   |                      |
|--|---------|------------|---|----------------------|
| ADOT - I-15 Virgin River Bridge #6 Reconstruction        | 3/24/14 | individual | Public Notice issued 2/4/14, Appl. Rcvd. 1/31/14, Original Signatures recvd. 2/5/14; Awaiting 401 process revamp.                 | SPL-2012-00915-KAT   |
| Cortraro/Magee Rd Corridor                               | 2/25/14 | mod        | extension. Delayed due to arrival in middle of 401 cert. process revamping.   | SPL-2007-01323-JWL   |
| Hidden Slough, Leopard Frog Marsh Restoration - NPS      | 2/28/14 | NWP 27     | waiver of individual 401  | SPK-2014-00055-SG    |
| Beaver Creek Xing - FR 26                                | 3/6/14  | NWP 27     | waiver of individual 401  | SPL-2013-820-RJD     |
| 7F Stormwater Channel Diversion - Ray Mine - Elder Gulch | 4/21/14 | mod        | project addition. Delayed due to arrival in middle of 401 cert. process revamping.  | SPL-1990-4008400-RJD |
| ASARCO Mission Mine Stormwater Controls                  | 5/21/14 | individual | Delayed awaiting 401 process revamp. And 401 public notice process.   | SPL-2010-01216-MB    |
| Northern Parkway - Dysart Road to 111th Avenue           | 5/28/14 | individual | Delayed awaiting 401 process revamp. And 401 public notice process.   | SPL-2012-00915-KAT   |
| SR86 Widening; Valencia to Kinney Rds. ADOT              | 5/21/14 | individual | Delayed awaiting 401 public notice process. ADOT changed project 5/9/14 causing further delays in review. Withdrawal by applicant | SPL-2010-41-KAT      |
| Babocomari River Restoration Upper Babocomari R. Site    | 4/18/14 | NWP 27     | waiver of individual 401  | SPL-2014-116-RJD     |
| Babocomari River Restoration Pacheco Springs Site        | 4/18/14 | NWP 27     | waiver of individual 401  | SPL-2014-118-RJD     |
| Babocomari River Restoration Vaughn Canyon Site          | 4/18/14 | NWP 27     | waiver of individual 401  | SPL-2014-117-RJD     |

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|  |         |                               |   |                    |
|--|---------|-------------------------------|---|--------------------|
| Babocomari River Restoration<br>O'Donnell Canyon Site                              | 4/18/14 | NWP 27                        | waiver of individual 401  | SPL-2014-119-RJD   |
| Babocomari River Restoration<br>Lyle Canyon Site                                   | 4/18/14 | NWP 27                        | waiver of individual 401  | SPL-2014-120-RJD   |
| Waterline Replacement to Historic Orchard<br>Lees Ferry, Glen Canyon Natl Rec Area | 5/14/14 | incomplete application letter | No CoE Public Notice  | na                 |
| Lees Ferry Paria Riffle Rd. Culvert Repair, Glen Canyon Natl Rec Area              | 5/16/14 | NWP 14                        | waiver of individual 401  | SPK-2014-00260-SG  |
| Ramsey Creek stabilization & restoration, Nature Conservancy                       | 5/16/14 | NWP 27                        | waiver of individual 401  | SPL-2013-837-RJD   |
| Vistancia North, White Peak Ranch  | 5/27/14 | mod                           | extension w/new conditions. Discussion whether or not to public notice caused delays.   | SPL-2003-00403-SDM |
| Ash Canyon Crossing, FHWA  | 6/4/14  | NWP 14                        | waiver of individual 401  | na                 |
| Antelope Point Dock 3 Extension & Tee Dock Addition, Glen Canyon Natl Rec Area     | 6/4/14  | letter                        | Section 10 - LOP Delayed while discussing implications of LOP vs NWP vs Public Notice. Awaiting reply from appl. Re anchoring method as this is pertinent to decision. No discharge; therefore no 401 | SPK-2014-00118-SG  |
| Harshaw Creek Habitat Restoration  | 6/19/14 | NWP 27                        | waiver of individual 401. New PM at CoE needed time to decide if NWP or Individual - ADEQ can't reject NWP as incomplete under this circumstance, so had to wait.                                     | SPL-2014-00331-DB  |

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|   |         |        |                          |                   |
|---|---------|--------|--------------------------|-------------------|
| Spring Creek Aquatic Resources Protection - BuRec | 6/19/14 | NWP 4  | waiver of individual 401 | SPL-2014-00215-DB |
| Sterling Spring Junction Box Reinforcement        | 6/30/14 | NWP 37 | waiver of individual 401 | na                |

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### 401 CERTIFICATION ACTIONS

| GOAL #2: Protecting America's Waters<br>Regulation<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water                                      |                                  |
|---|--|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.3   | <b>TASK: Regional Water Quality Management Planning</b><br><br>Carry out state and federal requirements of regional Water Quality Management Planning Program (CWA 208 Program). Track implementation of new WQM Plans (e.g., Yuma, SEAGO).<br><br>Provide technical assistance to regional planning agencies and regulated community.<br><br><b>DELIVERABLES:</b> |   |                                  |
| 604(b)<br><br>NPS in<br>PPG   | 1) Review WQM Plan Amendments/Updates.<br>a) Report status of amendments received.<br><br>(NPS Object 1.B.)  | T = Quarterly<br><br>A = 6<br><br><b>Comment</b>                  | Surface Water                    |
| 604(b)<br><br>PPG   | 2) Make 208 conformance determinations.  | T = Number processed<br><br>A = 31                                | Surface Water                    |

| FTE Funding Source                                 | FTE         | Personnel     | ERE           | Indirect      | Total          |
|--|-------------|---------------|---------------|---------------|----------------|
| NPS in PPG   | 0.20        | 8,595         | 3,782         | 5,893         | 18,269         |
| PPG  | 0.12        | 5,157         | 2,269         | 3,536         | 10,962         |
| 604(b) XIII  | 0.68        | 29,223        | 10,520        | 18,922        | 58,665         |
| <b>Aid to Orgs: Council of Gov't (604(b) XIII)</b> |             |               |               |               | <b>40,000</b>  |
| <b>TOTALS</b>                                      | <b>1.00</b> | <b>42,975</b> | <b>16,571</b> | <b>28,351</b> | <b>127,896</b> |

- 1) In total, 6 amendments were approved. In FY14, the following amendments were approved: The Town of Marana DMA 208 Amendment was approved by EPA in April 2014; Southwest Environmental Utilities is no longer pursuing the 208 amendment process for service in Pinal County in and around the municipal boundaries of the Town of Florence; The revision and update of the CAG 208 Plan is under review and is expected to be public noticed in the next fiscal quarter.

Kaizen process – As ADEQ is reviewing its own internal procedures, ADEQ staff and management have participated in the last several Water Quality Management Work Group meetings with the Designated Planning Agencies (DPAs) to encourage and facilitate discussion of the DPA consistency review and 208 amendment processes. The DPAs have been asked to review their individual approval process to look for opportunities to evaluate and consolidate the regional planning process with an eye towards assisting ADEQ in the more streamlined permitting process. ADEQ is continuing that dialogue in FY15.

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In addition to the Kaizen process, ADEQ is considering an update to the existing 208 State WQM Planning document. It is hoped that the revised State 208 plan could serve as an updated template for goals and objectives that are reflective of future water quality objectives for the State and DPA plans. All of the DPAs would be able to utilize the State water quality related goals and objectives, which would include more specific criteria for evaluation and approval of water quality related projects. The results would be to save time, effort, and the cost of updates to DPA plans and the State 208 Plan. The DPA plans could more easily be updated with information on area water quality related issues. Although local resources are limited in some ways, more of a focus could be directed towards work with other stakeholders on specific water quality improvement projects. Annual updates to the State 208 Plan and the DPA regional plans should occur more readily with the new process.

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   | Program #4500: Surface Water Regulation                           |                                  |
|---|---|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.4   | <b>TASK: Surface Water Program Development</b><br><br>Perform support activities for surface water program including development of program procedures and policies.<br><br><b>DELIVERABLES:</b>  |   |                                  |
| PPG<br><br>NPS in<br>PPG  | 1) Finalize implementation procedures for anti-degradation, <del>biocriteria</del> , <del>bottom deposits</del> and fish consumption.<br>a) Antidegradation<br>i) Finalize implementation procedures<br>b) Fish consumption<br>i) Initiate public process<br>ii) Finalize implementation procedures<br>(NPS Strategies 3.A.3) | T = <b>Comment</b><br><br>ai) 12/13<br><br>bi) 12/13<br>bii) 6/14 | Surface Water                    |
| PPG   | 2) Initiate triennial review*.<br>a) Begin stakeholder outreach<br>b) Complete triennial review   | T = <b>Comment</b><br>a) 5/13<br>b) 4/14                          | Surface Water                    |
| PPG<br><br>NPS in<br>PPG  | 3) Revisit Lakes Narrative Nutrient Standards<br>a) Complete literature and data review, update data analysis, and refine matrix relationships<br>b) Determine if current matrix approach requires modification.<br>(NPS Strategies 3.A.3)  | T = <b>Comment</b><br>a) 6/13<br><br>b) 8/13                      | Surface Water                    |

\*Dependent upon governor's approval to pursue rulemaking

| FTE Funding Source                | FTE         | Personnel     | ERE           | Indirect      | Total          |
|-----------------------------------|-------------|---------------|---------------|---------------|----------------|
| WQFF-AZPDES NPS in PPG<br>{Match} | 0.17        | 11,466        | 5,045         | 7,861         | 24,372         |
| NPS in PPG                        | 0.75        | 37,824        | 16,643        | 25,932        | 80,398         |
| PPG                               | 0.51        | 22,501        | 9,900         | 15,426        | 47,828         |
| <b>TOTALS</b>                     | <b>1.43</b> | <b>71,791</b> | <b>31,588</b> | <b>49,219</b> | <b>152,598</b> |

**Comments:** All deliverables are off target. Deliverables 1a & 1b have been rescheduled for the FY15 workplan. Deliverable 2: ADEQ has continued development of the draft revised standards and anticipates initiating stakeholder outreach in August 2014 and completing the triennial review in January 2015. During FY 14 ADEQ staff continued drafting the proposed rule with substantial time spent verifying reach descriptions and lat/longs for waters in 109.F, 112.G, and App B. Staff also attended webinars and or conference calls on proposed criteria for E.Coli, ammonia and development of narrative nutrient criteria. Due to current rulemaking moratorium, ADEQ is limited to standards modifications approved by the Governor's authorization in December 2013. Deliverable 3 is off target due to contractor delays. Staff has worked closely with contractor to provide needed data to complete the report prior to EPA workshop in Sacramento in August 2014.

## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America’s Waters                              |   | Program #4500: Surface Water Regulation                           |                                  |
|---|---|---|----------------------------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.5   | <b>TASK: Ambient Monitoring Program</b><br><br>Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process.<br><br><b>DELIVERABLES:</b> |   |                                  |
| PPG<br><br>NPS in<br>PPG  | 1) Ambient monitoring<br>a) Conduct ambient stream and lake monitoring per FY14 sampling and analysis plan throughout Arizona.<br>b) Prepare FY15 sampling and analysis plan for:<br>i) rivers and streams.<br>ii) lakes<br>(NPS Strategies 3.A.1)  | T =<br>a) Quarterly<br><br>b) 5/14 <b>A = 5/14</b>                | Surface Water                    |
| 106 Mon-3<br><br>NPS in<br>PPG                                    | 2) Fish tissue and sediment sampling program<br>a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY14 sampling plan.<br>b) Prepare FY15 sampling plan for fish tissue monitoring.<br>(NPS Strategies 3.A.1)   | T =<br>a) Quarterly<br><br>b) 2/14 <b>A = 5/14</b>                | Surface Water                    |
| NPS PA 1  | 3) Complete groundwater basins reports for:<br>a) Harquahala<br>b) Tonto<br>(NPS Strategies 3.A.1)  | T =<br>a) 12/13 <b>A = 6/14</b><br>b) 6/14 <b>A = 12/13</b>       | Surface Water                    |

| <b>FTE Funding Source</b>                       | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>     | <b>Indirect</b> | <b>Total</b>   |
|---|-------------|------------------|----------------|-----------------|----------------|
| WQFF-AZPDES NPS in PPG {Match}                  | 0.17        | 4,554            | 2,004          | 3,122           | 9,680          |
| WQARF   | 0.58        | 21,417           | 9,423          | 14,683          | 45,524         |
| WQARF NPS in PPG {Match}                        | 1.57        | 75,935           | 33,411         | 52,060          | 161,406        |
| WQARF NPS Proj 24 [Match]                       | 0.84        | 38,437           | 16,912         | 26,352          | 81,701         |
| 106 Monitoring - 3                              | 0.83        | 35,210           | 15,492         | 24,139          | 74,842         |
| NPS in PPG                                      | 0.96        | 48,175           | 21,197         | 33,028          | 102,400        |
| PPG   | 0.84        | 34,201           | 15,048         | 23,448          | 72,697         |
| NPS P&A (Base)                                  | 0.17        | 11,466           | 5,045          | 7,861           | 24,372         |
| <b>Contracts: USGS (PPG)</b>                    |             |                  |                |                 | <b>85,000</b>  |
| <b>Contracts: Ambient Sampling (NPS in PPG)</b> |             |                  |                |                 | <b>40,000</b>  |
| <b>TOTALS</b>                                   | <b>5.96</b> | <b>269,395</b>   | <b>118,532</b> | <b>184,693</b>  | <b>697,622</b> |

## **FY2014 4th Qtr. Final Output Report**

### **Comments – TASK 1.3.5:**

Del. 2a: The Fish sampling plan was off target for FY14. Fish tissue sampling will be on a fiscal year schedule and included in one comprehensive ambient sampling and analysis plan beginning in FY15.

147 surface water samples were collected during FY14. Over 36 sites were sampled quarterly at primarily coldwater sites (<5,000 feet) throughout Arizona. 24 of the 36 sites were randomly selected for a state-wide probabilistic assessment.

51 groundwater samples were collected during FY14 in the Lower Gila and Harquahala basins. Reports were completed for the Harquahala and Tonto basins.



## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America’s Waters                              |   | Program #4500: Surface Water Regulation                           |                                  |
|---|---|---|----------------------------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.6   | <b>TASK: 106 Monitoring</b><br><br>Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy.<br><br><b>DELIVERABLES:</b>  |   |                                  |
| 106 Mon-3<br><br>NPS in<br>PPG                                    | 1) Physical integrity<br>a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type.<br>i) Submit final report to EPA<br>(NPS Strategies 3.A.3)  | T =<br><br>ai) 6/14 <b>A = 6/14</b>                               | Surface Water                    |
| 106 Mon-3<br><br>NPS in<br>PPG                                    | 2) Intermittent streams<br>a) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA.<br>(NPS Strategies 3.A.1 & 3.A.3) | T = 11/13 <b>A = 8/13</b>   | Surface Water                    |
| 106 Mon-3<br><br>NPS in<br>PPG                                    | 3) Conduct nutrient monitoring for Rivers and Streams per FY14 sampling and analysis plan.<br>(NPS Strategies 3.A.1)  | T = Quarterly <b>A = 6/30/14</b>                                  | Surface Water                    |
| 106 Mon-3   | 4) Effluent dependent waters<br>a) Conduct monitoring according to SAP for effluent dependent waters.   | T =<br>a) 6/14 <b>A = 6/14</b>                                    | Surface Water                    |
|   | 5) Participate in the 2013 and 2014 National River and Stream Survey.<br>a) Conduct field work for all wadeable sites.  | T =<br>a) 10/14 <b>Ongoing</b>                                    | Surface Water                    |

| <b>FTE Funding Source</b>                        | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|--|-------------|------------------|---------------|-----------------|----------------|
| WQARF NPS in PPG {Match}                         | 0.17        | 8,568            | 3,770         | 5,874           | 18,212         |
| 106 Monitoring - 3                               | 0.92        | 40,274           | 17,721        | 27,611          | 85,606         |
| NPS in PPG                                       | 0.66        | 33,383           | 14,689        | 22,887          | 70,958         |
| <b>Contract: River &amp; Streams (106 Mon-3)</b> |             |                  |               |                 | 29,000         |
| <b>TOTALS</b>                                    | <b>1.75</b> | <b>82,225</b>    | <b>36,180</b> | <b>56,372</b>   | <b>203,776</b> |

## **FY2014 4th Qtr. Final Output Report**

### **Comments – TASK 1.3.6:**

Reports were completed for two contracts, Physical Integrity (Del.#1) and Intermittent stream (Del.#2). Natural Channel Design sampled approximately 30 sites to assess Relative Bed Stability as a new standard. Ecoanalyst analyzed existing intermittent stream data to evaluate new metrics for the development of an intermittent Index of Biological Integrity.

Del.#4: Sampling was completed at 1 EDW site in FY14. The Santa Cruz River was sampled quarterly.

Del.#5: 25 of the 28 National River and Stream Assessment sites have been sampled. The last three sites will be sampled during July of 2014.

## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America’s Waters                              |   | Program #4500: Surface Water Regulation                             |                                  |
|---|---|---|----------------------------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.7   | <b>TASK: 305(b) Water Quality Assessment Report and 303(d) List</b><br><br>Develop Integrated Report and list of impaired waters.<br><br><b>DELIVERABLES:</b>   |   |                                  |
| PPG<br><br>NPS in<br>PPG  | 1) Final 2012-2014 305(b) Integrated Report and 303(d)-List.<br>a) 60-day public comment period begins<br>b) 45-day AAR Notice begins<br>c) Submit 303(d) List to EPA for approval<br>(NPS Strategy 3.A.1)  | T =<br><br>a) 9/13 A = 4/1/14<br>b) 2/14 Comment<br>c) 4/14 Comment | Surface Water                    |
| PPG<br><br>NPS in<br>PPG  | 2) Identify waters that were either delisted or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated.<br>a) Develop list of candidate waters<br>b) Draft success stories and submit to EPA<br>(NPS Strategy 4.B.1) | T =<br><br>a) 2/14 A = 2/26/14<br>b) 6/14 Comment                   | Surface Water                    |
|   | 3) Finalize 2010 Assessment<br>a) Update 2010 303(d) List based upon EPA R9 partial approval/disapproval<br>b) Finalize 2010 305(b) Report upon resolution of Pinto Creek 4A appeal<br>(NPS Strategy 3.A.1)   | T =<br><br>a) 8/13 A = 8/13<br><br>b) 10/13 Comment                 | Surface Water                    |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| NPS in PPG                | 1.12        | 57,399           | 25,256        | 39,352          | 122,006        |
| PPG                       | 0.46        | 23,761           | 10,455        | 16,290          | 50,506         |
| <b>TOTALS</b>             | <b>1.58</b> | <b>81,160</b>    | <b>35,711</b> | <b>55,642</b>   | <b>172,512</b> |

Del #1: The 2010 Pinto Creek 4A appeal was tentatively resolved late in FY14. The drawn out appeal process delayed the release of the 2012/14 Integrated report until April 2014. Revisions and responses to comments are ongoing and expected to be completed in Q1 FY15 followed by A.A.R. publication and submittal to EPA for approval. FY15 Workplan has been revised.

Del #2: The TMDL and WQIP programs identified candidate waters for success stories (Verde River, LCR, Gibson mine, and Tonto/Christopher Creek) in February produced no success stories. Resources were concentrated on drafting and revising the NPS 5-yr plan, preparing the 2012/14 IR and Watson Lake TMDL for public comment, developing responses to comments and initiating the Santa Cruz project.

Del #3: The 2010 webpage and report will be revised to show that it is final once the appeal has been officially withdrawn/dismissed on July 7, 2014.

## **FY2014 4th Qtr. Final Output Report**

Additional tasks: The annual call for external data submissions went out April 9<sup>th</sup>. To date we have received data from 20 sources. Data is being loaded into the ADEQ Water Quality Database and will be used in future Assessments.

## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   | Program #4500: Surface Water Regulation                           |                                  |
|---|---|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.8   | <b>TASK: TMDL Development and Implementation</b><br><br>Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented.<br><br>DELIVERABLES:  |   |                                  |
| NPS PA I<br><br>PPG<br><br>NPS in<br>PPG  | 1) TMDL Reports<br>a) Submit 6 TMDL reports to EPA for final approval by June 2014.<br>b) Complete 1 <sup>st</sup> (30 day) public notice for 3 additional TMDLs by June 2014; See Table 1.3.8-1 (NPS Strategy 3.B.3)   | T = Semi-Annual Status<br>Table Updates<br><b>Comments</b>        | Surface Water                    |
| PPG<br><br>NPS in<br>PPG  | 2) Continuing data collection and analysis for TMDL development. Target is 21 TMDLs on 14 waterbody segments; see Continued TMDL Development Status Table 1.3.8-2. (NPS Strategy 3.B.3)   | T = Semi-Annual Status<br>Table Updates<br><b>Comment</b>         | Surface Water                    |
| PPG<br><br>NPS in<br>PPG  | 3) Develop TMDL implementation plans.<br>a) Complete 3 TMDL implementation plans<br>b) Coordinate efforts with WQIG Unit to develop list of target watersheds for WQIP development (See Task 1.3.9); see Develop Implementation Plans Status Table 1.3.8-4. (NPS Strategy 3.B.3)  | T = Semi-Annual Status<br>Table Updates<br><b>Comments</b>        | Surface Water                    |
| NPS Proj<br>24<br><br>PPG   | 4) Conduct effectiveness monitoring.<br>a) Monitor the remedial activities on 3 Measure W waterbodies.<br>b) Support WQIG Unit efforts to determine effectiveness of past 319 projects as discussed in Task 1.3.9, #12.<br>c) Coordinate with WQIG Unit to track progress in meeting WQD Performance Measure on 5 waters.<br>d) Coordinate with NRCS to conduct effectiveness monitoring on NWQI watershed; see Effectiveness Monitoring Status Table 1.3.8-3. (NPS Strategy 4.A.1) | T = Semi-Annual Status<br>Table Updates<br><b>Comments</b>        | Surface Water                    |
|   | 5) Provide quarterly updates to TMDL project tables with description of work completed and updates to specific milestones for projects to be completed by June 30, 2014.  | T = Quarterly Updates to<br>TMDL Project Tables<br><b>Comment</b> | Surface Water                    |

## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America’s Waters                              |  | Program #4500: Surface Water Regulation                           |                                  |
|---|--|---|----------------------------------|
| Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.8   | TASK: TMDL Development and Implementation (Cont’d)<br><br>DELIVERABLES:  |   |                                  |
| PPG   | 6) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c). | T = Monthly TMDL Conference Calls<br><br>Comment                  | Surface Water                    |
|   | 7) Implement TMDL/319 Kaizen and TMDL and Assessment Unit Staff Workout action items.  | T = Provide EPA with quarterly GSD updates                        | Surface Water                    |

| <b>FTE Funding Source</b>                           | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>     | <b>Indirect</b> | <b>Total</b>   |
|---|-------------|------------------|----------------|-----------------|----------------|
| WQFF-AZPDES NPS in PPG {Match}                      | 0.25        | 6,696            | 2,946          | 4,591           | 14,233         |
| WQARF NPS Proj 24 [Match]                           | 0.50        | 22,575           | 9,933          | 15,477          | 47,985         |
| PPG   | 0.08        | 4,788            | 2,107          | 3,283           | 10,177         |
| NPS in PPG  | 3.67        | 189,042          | 83,178         | 129,604         | 401,825        |
| NPS PA I (Base)                                     | 0.33        | 18,168           | 7,994          | 12,456          | 38,618         |
| NPS Proj 24   | 0.50        | 22,575           | 9,933          | 15,477          | 47,985         |
| <b>Contract: TMDL Work (Base) (NPS P&amp;A 1)</b>   |             |                  |                |                 | <b>24,000</b>  |
| <b>Contract: TMDL Work (Increm) (NPS P&amp;A 1)</b> |             |                  |                |                 | <b>6,000</b>   |
| <b>Contract: MDN Monitoring (NPS in PPG)</b>        |             |                  |                |                 | <b>14,000</b>  |
| <b>Contract: TMDL Sampling (NPS in PPG)</b>         |             |                  |                |                 | <b>30,000</b>  |
| <b>TOTALS</b>                                       | <b>5.33</b> | <b>263,844</b>   | <b>116,091</b> | <b>180,888</b>  | <b>634,823</b> |

Del #1: The lower San Pedro *E. coli* TMDL was approved by EPA in November 2013. The 30-day public comment period was completed for the Watson Lake TMDL. There have been significant revisions to the WLA language and targets have been made based upon EPA and City of Prescott comments. Revisions will be completed in Q1 FY15 and a revised draft will be shared with EPA and the City prior to the A.A.R. publication. The Granite Creek TMDL will be revised to incorporate the necessary changes to be consistent with the final Watson Lake TMDL prior to its release for 30-day public comment. The middle Gila River selenium and boron TMDL report has been drafted and peer reviewed and is currently under management review.

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Del #2: In addition to participating with EPA, Tetra Tech, and UofA on the Santa Cruz project, ADEQ continued TMDL data collection and analysis on 34 TMDLs for 16 waterbody segments. Activities included data collection and analysis of water, sediment, equipment installation and maintenance, and interacting with stakeholders. Delist reports were developed for the Gila Pesticides and East Verde selenium and boron listings.

Del #3: No TIPs listed in Table 1.3.8- 4 were completed. However, the Middle Gila River does contain an abbreviated TIP that reviews some irrigation water management strategies that could be implemented to reduce selenium and boron. Efforts were focused on developing a project to implement the new combined TMDL/WQIG WIP process. Initially the Silver Creek or a subwatershed of the upper Gila River watershed was targeted but ultimately the upper Santa Cruz watershed was chosen. Staff reviewed and commented on Tetra Tech's and UofA's Santa Cruz reports, participated in watershed group meetings, and coordinated efforts internally.

Del #4: Effectiveness monitoring samples were collected from Pinto Creek, Tonto and Christopher Creeks and the LCR. Pinto Creek continues to show improvements based upon the new cap and stormwater drainage design implemented at the Gibson mine. Tonto and Christopher creeks appear to have reduced nutrient loading but continue to have routine *E. coli* exceedances during storm flows. Additional twice a month sampling will take place in FY15 Q1 to confirm the nutrient reductions. The Boulder Creek Hillside mine LTP project is finally moving forward. ADOA was awarded 319 monies to have their contractor determine access road feasibility and cap design. BLM is moving forward with their project (update to be given in FY15 Q1) and ADEQ compliance section continues to work with the owner of the MTP. TMDL and WQIG staff completed the field evaluation of 23 previously completed 319 grant projects. We are still developing the evaluation scoring matrix. Progress on meeting the performance measure is tracked on the Master Target List and depicted on the Unit Q-boards. The methodology for the measure performance has not been finalized but will be shared with EPA upon completion. There was no sampling of the NWQI watershed as we have not been informed that any projects have been awarded. ADEQ will attempt to characterize pre-implementation conditions once we know where projects will be located.

Del #5: First and second quarter updates were completed and provided to EPA.

Del #6: Constructive, effective and regular communication between EPA R9 and ADEQ occurred throughout the fiscal year. EPA supported ADEQ efforts to continue the integration of the NPS/319 and TMDL programs. Monthly combined 319 and TMDL calls between EPA and ADEQ occurred throughout the year.

Del #7: Although project status was not tracked via GSDs, EPA was given updates throughout the year via monthly calls and workplan table updates.

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### 1.3.8-1 & Deliverable 5 TMDL Projects Quarterly Status

| Segment (impairment)  | Milestone (target)                            | Actual/Comments  |
|---|---|--|
| Watson Lake (Nitrogen, low D.O., high pH)                             |   | Q1- Draft TMDL is under review by management. WLA language was agreed upon with WQD Management and Permitting Units. ADEQ will meet with City of Prescott in Q2.<br>Q2- ADEQ met with the City of Prescott and their contractor on 10/29. Draft TMDL under WQD management review. Expected to be share with EPA and COP in Q3.<br>Q3- Draft TMDL public comment period began on April 1 <sup>st</sup><br>Q4- Public comment period ended May 1. 10 sets of comments were received. Responses and TMDL revisions have been ongoing. |
|   | 30-day public comment period begins (9/1/13)  |  |
|   | 45-day AAR Notice begins (12/1/13)            |  |
|   | Submit final to EPA (3/1/14)                  |  |
| Granite Creek- headwaters to Willow Creek (Low D.O., <i>E. coli</i> ) |   | Q1- Draft TMDL Report delayed by issues with the Watson Lake draft TMDL. Additional watershed sampling events took place to fill data gaps identified in the modeling and review process.<br>Q2- TMDL was drafted and will be sent through WQD management review after Watson Lake TMDL.<br>Q3- Public comment period will open on June 2 <sup>nd</sup><br>Q4- Due to extent and nature of comments received during the Watson Lake Public comment period the release of the Granite Creek report was delayed.                     |
|   | 30-day public comment period begins (10/1/13) |  |
|   | 45-day AAR Notice begins (1/1/14)             |  |
|   | Submit final to EPA (4/1/14)                  |  |
| Miller Creek ( <i>E. coli</i> )                                       | Same schedule as Granite Creek TMDL           | Q1- see Granite Creek above<br>Q2- see Granite Creek above<br>Q3- see Granite Creek above<br>Q4- see Granite Creek above   |
| Manzanita Creek ( <i>E. coli</i> )                                    | Same schedule as Granite Creek TMDL           | Q1- see Granite Creek above<br>Q2- see Granite Creek above<br>Q3- see Granite Creek above<br>Q4- see Granite Creek above   |
| Alamo Lake (Hg in fish tissue)  | Complete Data Summary Report (10/1/13)        | Q1- Outline for Data Summary developed.<br>Q2- No activity on project<br>Q3- see Granite Creek above<br>Q4- No activity on project   |
| Lyman Lake (Hg in fish tissue)  | Complete Data Summary Report (1/1/14)         | Q1- no activity on project<br>Q2- no activity of project, will be initiated in 3 <sup>rd</sup> Qtr.<br>Q3- no activity on project<br>Q4- No activity on project  |



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|   |  |   |
|---|--|---|
| Parker Canyon Lake (Hg in Fish Tissue)            | Complete Data Summary Report (9/1/13)  | Q1- off target, will be completed in Q2.<br>Q2- TMDL report reworked into data summary report<br>Q3- no activity on project<br>Q4- No activity on project   |
| Queen Creek- headwaters to Superior WWTP (Cu, Pb) |  | Q1- Internal discussions led to additional questions for contractor. Awaiting clarification.<br>Q2- Continued internal discussions on appropriate course of action<br>Q3- no action on project<br>Q4- No activity on project  |
|   | Complete draft TMDLs (11/1/13)         |   |
|   | Public Comment Period begins (1/15/14) |   |
|   | 45-day AAR Notice begins (5/30/14)     |   |
| Queen Creek- Superior WWTP to Potts Canyon (Cu)   | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Queen Creek- Potts Canyon to Whitlow Dam (Cu)     | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Queen Creek- Potts Canyon to Whitlow Dam (Cu)     | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Arnett Creek- Headwaters to Queen Creek (Cu)      | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Unnamed Trib to Queen Creek (-991) (Cu)           | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Unnamed Trib to Queen Creek (-1843) (Cu)          | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Unnamed Trib to Queen Creek (-472) (Cu)           | Same schedule as Queen Creek           | Q1- see Queen Creek above<br>Q2- see Queen Creek above<br>Q3- see Queen Creek above<br>Q4- see Queen Creek above  |
| Gila River Pesticide Delist                       | Complete delist report (9/30/13)       | Q1- Draft delist report was completed in August. WQD management is reviewing document prior to sharing with stakeholders in Q2<br>Q2- Draft document shared with EPA, and stakeholder (including tribes). Will propose delisting reaches in 2012/14 IR.<br>Q3- no additional activity on project<br>Q4- no additional activity on project |

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**1.3.8–2 Continued TMDL Development Status Table**

| <b>Segment</b>                                | <b>Impairment</b> | <b>Purpose</b>   | <b>Comments</b>   |
|---|-------------------|--|---|
| Bear Canyon Lake                              | Low pH            | Prepare data analysis to support delist report           | Q1- Sampling event took place in August<br>Q2- No action on project<br>Q3- Draft data analysis report completed<br>Q4- Additional sampling event occurred.  |
| Rose Canyon Lake                              | Low pH            | Prepare data analysis to support delist report           | Q1- No action on project<br>Q2- No action on project<br>Q3- Draft data analysis report completed<br>Q4- No sampling event took place  |
| Pinto Creek- headwaters to Ripper Spring*     | Cu                | TMDL report development is on hold until adoption of SSS | Q1- No action of project<br>Q2- Received permission from Governor's office to proceed with WQS triennial review<br>Q3- no activity on project<br>Q4- WQD Deputy Director's office continued drafting proposed rule-making language to include Pinto SSS |
| Pinto Creek- Ripper Spring to Roosevelt Lake* | Cu                | TMDL report development is on hold until adoption of SSS | Q1- No action of project<br>Q2- Received permission from Governor's office to proceed with WQS triennial review<br>Q3- no activity on project<br>Q4- see Pinto Creek above  |
| Haunted Canyon- Headwaters to Pinto Creek*    | Cu                | TMDL report development is on hold until adoption of SSS | Q1- No action of project<br>Q2- Received permission from Governor's office to proceed with WQS triennial review<br>Q3- no activity on project<br>Q4- see Pinto Creek above  |

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|  |                |  |  |
|--|----------------|--|--|
| Five Point Mountain-<br>Headwaters to Pinto Creek* | Cu             | TMDL report development is<br>on hold until adoption of SSS                      | Q1- No action of project<br>Q2- Received permission from<br>Governor's office to proceed with<br>WQS triennial review<br>Q3- no activity on project<br>Q4- see Pinto Creek above   |
| Mule Gulch- headwaters to<br>Above Lavender Pit*   | Cu             | Review modeling report and consult<br>with FMI to determine SSS/TMDL<br>approach | Q1- Internal discussions continued<br>regarding the direction that the project<br>should take. Based on work completed<br>by FMI additional monitoring is<br>needed to determine effectiveness of<br>projects and current WQ status.<br>Q2- Briefly discussed options with<br>FMI representatives. Will continue<br>discussions in Q3<br>Q3- Sent letter to FMI Copper Queen<br>requesting meeting to discuss<br>coordinating sampling effort. No<br>response has been received<br>Q4- FMI responded to request and<br>proposed a meeting to discuss to<br>project to be schedule the FY15 Q1. |
| Mule Gulch- Above Lavender<br>Pit to Bisbee WWTP*  | Cu, pH         | Review modeling report and consult<br>with FMI to determine SSS/TMDL<br>approach | Q1- see Mule Gulch above.<br>Q2- see Mule Gulch above.<br>Q3- see Mule Gulch above.<br>Q4- see Mule Gulch above  |
| Mule Gulch- WWTP to<br>Highway Bridge*             | Cd, Cu, pH, Zn | Review modeling report and consult<br>with FMI to determine SSS/TMDL<br>approach | Q1- see Mule Gulch above.<br>Q2- see Mule Gulch above.<br>Q3- see Mule Gulch above.<br>Q4- see Mule Gulch above  |
| Brewery Gulch- headwaters to<br>Mule Gulch*        | pH             | Review modeling report and consult<br>with FMI to determine SSS/TMDL<br>approach | Q1- see Mule Gulch above.<br>Q2- see Mule Gulch above.<br>Q3- see Mule Gulch above.<br>Q4- see Mule Gulch above  |

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|  |        |   |  |
|--|--------|---|--|
| Gila River-Centennial Wash to Gillespie Dam      | Se, B  | Continued monitoring to inform TMDL development                           | Q1- Additional low flow sampling was conducted to determine if certain canals/ag return flows are sources.<br>Q2- Public meeting held on 12/12. Low flow sampling will continue in Q3, data analysis initiated<br>Q3- Additional source water samples were collected; data analysis continued with agriculture return flows being the primary source<br>Q4- Draft TMDL report completed and peer reviewed, under review by TMDL supervisor |
| Gila River-Coyote Wash to Fortuna Wash           | Se, B  | Continued monitoring to inform TMDL development                           | Q1- Additional storm samples were collected.<br>Q2- No additional samples were collected, data analysis initiated<br>Q3- Additional flow sampling event took place<br>Q4- Reach will be split based upon hydrologic conditions observed throughout the project. ADEQ will propose delisting both Se and B based on project monitoring data.  |
| East Verde River-American Gulch to Verde River   | As, B  | Continued monitoring to determine if a TMDL or delist report is necessary | Q1- No additional samples were collected.<br>Q2- No additional sampling, data analysis initiated<br>Q3- Boron delist report draft was initiated. Data analysis for As continued<br>Q4- Boron delist report completed and under review by TMDL supervisor   |
| East Verde River-Ellison Creek to American Gulch | Se     | Continued monitoring to determine if a TMDL or delist report is necessary | Q1- Storm samples collected; no exceedances were observed. Potential delist.<br>Q2- No additional sampling, data analysis initiated<br>Q3- Delist report drafted and review by Unit Manager<br>Q4- Delist report completed   |
| Big Bug Creek Watershed Project                  | Metals | Monitor to determine pre-remediation conditions and develop a TMDL Lite   | Q1- Several storm events were sampled. Results confirmed that mines targeted by USFS degrade water quality.<br>Q2- Data collection continued and data analysis initiated<br>Q3- Additional stormwater samples were collected<br>Q4- No additional water quality data were collected. Data analysis and summary report began.   |

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**1.3.8-3 TMDL Effectiveness Monitoring Status Table**

| <b>Segment</b> | <b>Impairment</b> | <b>Purpose</b>   | <b>Comments</b>  |
|----------------|-------------------|------------------|--|
| Boulder Creek  | As, Cu, Zn        | Measure W/WQD PM | <p>Q1- Continued coordinating LTP project with EPA and state agencies. Still developing state MOU and ISA.</p> <p>Q2- EPA Superfund funds no longer available for road construction. State will evaluate feasibility of moving forward in early Q3</p> <p>Q3- Received Draft Form of Easement from FMI Bagdad formalizing their support for the LTP remediation project. ISA and MOU with ASLD and ADOA will be completed by April 18<sup>th</sup>. Meet with URS (ADOA) contractor to discuss cost estimates and contingencies. Once ISA is signed they will begin work on access road planning and cost contingency reduction.</p> <p>Q4- ISA has been signed, funds obligated to ADOA and URS has begun work. ADEQ and State Land are scheduled to meet with BLM in Q1 FY15 to get a status update.</p> |
| Pinto Creek    | Cu                | Measure W/WQD PM | <p>Q1- Gibson mine site visit scheduled for early Q2 followed by WQ sampling equipment installation.</p> <p>Q2- Five (5) first flush samplers installed, sampling event collected both grabs and first flush samples</p> <p>Q3- Additional sampling event took place in March. Preliminary results indicate that the copper concentration has been reduced by approximately 75% at the mouth of the Gibson Mine tributary.</p> <p>Q4- No additional samples were collected. Passive sampling equipment maintained and autosampler installed at mouth of Gibson mine tributary.</p>   |

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|   |                             |                  |   |
|---|-----------------------------|------------------|---|
| Turkey Creek                            | Cu, Pb                      | Measure W/WQD PM | <p>Q1- No additional monitoring was conducted. Provided EPA R9 with additional information for success story development.</p> <p>Q2- No additional action on project</p> <p>Q3- Tried to access the Blue Belle Mine but could not due to a locked gate. Will follow up with permits to determine status of mine.</p> <p>Q4- No additional sample were collected; site was added to MSGP nonfiler project list</p> |
| Tonto and Christopher Creeks            | Nitrogen and <i>E. coli</i> | WQD PM           | <p>Q1- Completed intensive summer sampling effort (10 sampling events). Data analysis will continue into Q2 as lab results are received.</p> <p>Q2- Continued data analysis</p> <p>Q3- Data summary report has been drafted, reviewed and is being revised</p> <p>Q4- Revised report under TMDL Supervisor review. Will resume summer sampling in FY15 Q1.</p>  |
| Little Colorado River                   | Turbidity                   | WQD PM           | <p>Q1- TMDL and 319 staff conducted Winema site visit. This watershed will be used to develop BMP effectiveness monitoring protocols for 319 projects.</p> <p>Q2- TMDL and WQIG staff meet with NCD and Coyote Creek grantee to review project status</p> <p>Q3- Staff developed field BMP evaluation forms. Will test forms in Q4</p> <p>Q4- Samples collected to evaluate Crosswhite projects.</p>              |
| Coordinate Monitoring of NWQI watershed |                             | NWQ1             | <p>Q1- Met with NRCS and R9 NPS to discuss priority watersheds- LCR and San Pedro. Will develop sampling plans once we complete Conservation Cooperator Agreement with NRCS.</p> <p>Q2- No additional action</p> <p>Q3- NRCS agreement was finalized and project data was forwarded to ADEQ. Planning will continue into Q4</p> <p>Q4- No additional action on project</p>  |

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|   |  |                       |   |
|---|--|-----------------------|---|
| Additional WQD PM waters as warranted             |  | WQD PM                | Q1- No additional waters identified.<br>Q2- No additional waters identified.<br>Q3- No additional waters identified.<br>Q3- No additional waters identified.                        |
| Participate in 319 Grant effectiveness monitoring |  | WQ1GP Task 1.3.9, #12 | Q1- Project will begin in Q2.<br>Q2- Initiated process is Upper LCR watershed, with continue in Q3<br>Q3- Continued Upper LCR project<br>Q4- Completed 8 BMP evaluation site visits |

Measure W- 2002 Baseline Waters

WQD PM- Water Quality Division Performance Measure

NWQI- NRCS National Water Quality Initiative

**1.3.8-4 TMDL Implementation Plans Table**

| Segment  | Comments   |
|--|--|
| Lake Mary Lake   | Q1- No action of project<br>Q2- Will be peer reviewed in Q3<br>Q3- Peer review began<br>Q4- No additional activity on project  |
| Parker Canyon Lake (1 TIP)                               | Q1- No action of project<br>Q2- Project summary drafted, TIP will not be drafted unless stakeholder support is generated<br>Q3- No additional activity on project<br>Q4- No additional activity on project   |
| Cortez Lake Management Plan                              | Q1- No action of project<br>Q2- No action of project<br>Q3- No action of project<br>Q4- No action of project   |
| Queen Creek (multiple reaches, 1 TIP)                    | Q1- No action of project<br>Q2- No action of project<br>Q3- No action of project<br>Q4- No action of project   |
| Coordinate efforts with WQIGP in new targeted watersheds | Q1- Still waiting for UofA to complete modeling effort in Silver Creek and Upper Gila watersheds to determine which areas to target.<br>Q2- UofA modeling update still pending<br>Q3- No update on upper Gila modeling. Focus has shifted to Upper Santa Cruz watershed. Tetra Tech modeling report will be completed and WIC kickoff meeting will be held in April.<br>Q4- WQ monitoring training was attempted but there was a lack of interest from the watershed group. UofA began drafting SAP with ADEQ input. SAP will be presented to group and input sought prior to finalizing it. |

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |   | Program #4500: Surface Water Regulation                                  |                                  |
|---|---|--|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL        | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.9   | <b>TASK: NPS Base Program Management and 319(h) Project Management (Cont'd)</b><br><br><b>DELIVERABLES:</b>   |  |                                  |
| NPS Proj<br>24<br><br>NPS in<br>PPG   | 2) Utilize technological resources to enhance online education and outreach tools. Enhancements may include but are not limited to:<br>a) Continuing to update and improve information about Arizona-appropriate BMPs.<br>b) Providing interactive mapping tools that link to project photos, BMP details, and effectiveness monitoring information<br>c) Provide links to and information about alternate funding sources for watershed projects and potential local authorities that address nonpoint source regulation.<br>(NPS Strategies 1.B.1, 1.B.2, 1.C & 4.B.1)  | T = 6/14<br><br>a) Ongoing<br>b) 6/14 A = 3/14<br>c) 12/13 3/14 A = 3/14 | Surface Water                    |
| NPS in<br>PPG   | 3) Update Arizona's 5-year Nonpoint Source Management Plan for FY15-FY20<br>a) Draft major program goals, objectives, and strategies and submit to EPA for comment.<br>b) Submit draft document for public and EPA comment.<br>c) Submit final plan to EPA  | T =<br>a) 8/13 A = 9/13<br>b) 11/13 A = 3/14<br>c) 6/14 A = 7/14         | Surface Water                    |
| NPS in<br>PPG   | 4) Provide oversight of existing partnership agreements with other state and Federal agencies. Update as necessary to better reflect NPS Management Plan goals. FY14 efforts will focus on:<br>a) Coordinating with NRCS to identify current and future priority watersheds for the National Water Quality Initiative and updating partnership agreement as necessary<br>b) Updating the USFS MOU to align with the new Nonpoint Source Management Plan goals for FY15-20<br>c) Coordinating with ASLD, ADOA, and EPA Region 9 to finalize a cooperative agreement identifying roles and responsibilities for the Hillside Mine lower tailings pile remediation project.<br>(NPS Strategies 1.C.2, 2.B.1 & 3.B.1) | T =<br>a) 6/14 A = 3/14<br>b) 6/14 Comment<br>c) 7/13 Comment            | Surface Water                    |

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water Regulation   |                                  |
|---|--|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.9   | <b>TASK: NPS Base Program Management and 319(h) Project Management (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |   |                                  |
| NPS PA I  | 5) Report on NPS program progress and successes.<br>a) Submit annual NPS report in accordance with EPA's annual reporting requirements outlined in NPS Program and Grants Guidelines for States & Territories.<br>i) Submit draft for EPA review and comment<br>ii) Submit final report<br>b) Participate in monthly teleconferences with EPA Region 9 to discuss NPS program activities<br>c) Report project activities and input load reduction information into GRTS database<br>i) Input load reduction data for federal FY14 implementation projects into GRTS<br>ii) Input all mandated elements for FY14-awarded projects into GRTS<br>iii) Attend annual GRTS meeting and regional GRTS training. (as scheduled).<br>iv) Upload final reports for all projects closed out during FY14 to GRTS<br>(NPS Objectives 4.A, 4.B) | T =<br><br>ai) 7/13           A = 7/13<br>aii) 9/13          A = 9/13<br>b) Monthly<br>A = monthly from 7/13-6/14<br><br>ci) 2/14           A = 2/14<br>cii) 6/14          A = 2/14<br>ciii) As scheduled<br><b>Comment</b><br>civ) 6/14          A = 614 | Surface Water                    |
| NPS in PPG  | 6) Update the Impaired Waters Improvement Table to reflect the most recent assessment and listing information, funding priorities and partnerships.<br>(NPS Objective 3.B).  | T = 8/13           A = 9/13   | Surface Water                    |

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water Regulation  |                                  |
|---|--|--|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.9   | <b>TASK: NPS Base Program Management and 319(h) Project Management (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |  |                                  |
| NPS in PPG  | <p>7) Identify new Targeted Watersheds for implementation plan development. Coordinate with TMDL unit to develop planning documents that satisfy EPA's "9 Key Elements" for watershed based plans. <i>Also see Table 1.3.9: Quarterly Status of Targeted Watershed Projects for additional information.</i></p> <p>a) Finalize decision matrix to determine which watershed planning approach will be most effective (i.e. TMDL, WIP, or TIP)</p> <p>b) Utilize decision matrix to identify new Targeted Watersheds for plan development. Identify internal and external planning teams and initiate stakeholder education about the planning process</p> <p>c) Execute funding agreements for external stakeholder and technical support as needed using NPS Program funding</p> <p>d) Initiate preliminary watershed surveys and data collection activities; draft first chapter of planning document (background information)</p> <p>(NPS Objectives 2.A, 2.B, 1.A; NPS Strategies 1.B.2, 3.B.1, 3.B.2)</p> | <p>T = <b>Comments</b></p> <p>a) 7/13      A = <b>7/13</b></p> <p>b) 8/13      A = <b>8/13</b></p> <p>c) 12/13      A = <b>4/14</b></p> <p>d) 3/14      A = <b>7/14</b></p>                    | Surface Water                    |
| NPS Proj 24   | <p>8) Solicit, evaluate and select 319 grant applications for WQIG Grant Cycle 14.</p> <p>a) Release RFGA for estimated \$1 to 2 million in unobligated Base, Incremental, and Watershed Project funding soliciting proposals for priority watershed plan-supported implementation projects</p> <p>b) Develop and conduct grant workshops and other types of outreach for grants, including providing technical assistance and training to improve the quality of grant proposal submissions</p> <p>c) Review applications, make award recommendations, and receive final approval on EPA funding allocations</p> <p>d) Develop and execute grant agreements</p> <p>e) Perform preliminary site visits and collect data to assess pre-implementation site and water quality conditions</p> <p>(NPS Strategies 1.A.1, 2.A.1 &amp; 3.B.2)</p>  | <p>T =</p> <p>a) 7/13      A = <b>7/13</b></p> <p>b) 8/13      A = <b>8/13</b></p> <p>c) 1/14      A = <b>1/14</b></p> <p>d) 2/14      A = <b>2/14</b></p> <p>e) 4/14      A = <b>4/14</b></p> | Surface Water Director           |

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water Regulation   |                                  |
|---|--|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.9   | <b>TASK: NPS Base Program Management and 319(h) Project Management (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |   |                                  |
| NPS in<br>PPG   | 9) Coordinate with internal and external partners to identify and commit resources for high priority watershed implementation projects for FY15 NPS funding (WQIG Cycle 15)<br>a) Conduct scoping meetings to promote stakeholder interest and commitment to participating in priority projects<br>(NPS Strategies 2.B.1 & 3.B.1)  | T =<br><br>a) 4/14                      A = 3/14  | Surface Water                    |
| NPS in<br>PPG   | 10) Solicit 319 grant applications for WQIG Grant Cycle 15.<br>a) Release RFGA for estimated \$1 to 2 million in unobligated Base, Incremental, and Watershed Project funding soliciting proposals for priority watershed plan-supported implementation projects<br>b) Develop and conduct grant workshops and other types of outreach for grants, including providing technical assistance and training to improve the quality of grant proposal submissions<br>(NPS Strategies 1.A.1, 2.A.1 & 3.B.2)   | T =<br><br>a) 5/14                      A = 3/14<br><br>b) 6/14                      A = 4/14   | Surface Water                    |
| NPS Proj<br>24  | 11) Oversee previously awarded 319 projects and contracts.<br>a) Approve reporting and reimbursement requests for projects scheduled to expire on or before 6/30/14.<br>b) Oversee UA contracts to:<br>i) Conduct watershed modeling to assist in identifying WQIP subwatersheds<br>ii) Provide technical and educational support to targeted watersheds and assist in WQIP development<br>iii) Provide load reduction data for WQIG projects addressing nitrogen, phosphorus and sediment issues, as well as other load reduction estimates as applicable.<br>(NPS Strategies 1.B.1, 2.A.1, 3.A.2, 3.B.2) | T =<br><br>a) Ongoing<br><br>bi) 8/13                      A = 10/13<br>bii) 6/14                      A = 6/14<br>biii) 2/14                      A = 2/14 | Surface Water                    |

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| GOAL #2: Protecting America's Waters<br>Objective 2.2: Protect & Restore Watersheds & Aquatic Ecosystems. |  | Program #4500: Surface Water Regulation   |                                  |
|---|--|---|----------------------------------|
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.3.9   | <b>TASK: NPS Base Program Management and 319(h) Project Management (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |   |                                  |
| NPS Proj 24   | 12) Conduct effectiveness evaluations and monitoring on past NPS funding investments and report on successes.<br>a) Develop and implement a monitoring plan in conjunction with the TMDL unit to assess the effectiveness of past WQIG projects. <i>For additional information see Task 1.3.8 Table 3.</i><br>i) Prioritize watersheds for FY14 effectiveness monitoring using the Master Target List (MTL)<br>ii) Conduct effectiveness evaluations and monitoring for projects in prioritized watersheds<br>iii) Develop success stories and/or SP-12 reports to document water quality improvements resulting from NPS fund expenditures.<br>(NPS Strategies 4.A.1 & 4.B.1) | T =<br><br>ai) 7/13                      A = 7/13<br><br>aii) 4/14<br>A = 7/13, 8/13, 9/13, 11/13, 1/14, 3/14, 4/14, 5/14<br>aiii) 6/14                      Comments | Surface Water                    |

| FTE Funding Source                                  | FTE         | Personnel      | ERE           | Indirect       | Total            |
|---|-------------|----------------|---------------|----------------|------------------|
| PS in PPG   | 1.50        | 77,592         | 34,140        | 53,196         | 164,928          |
| <b>NPS PA 1 (Incremental)</b>                       | <b>0.50</b> | <b>27,300</b>  | <b>12,012</b> | <b>18,716</b>  | <b>58,028</b>    |
| NPS PA 1 (Base)                                     | 1.00        | 43,926         | 19,327        | 30,115         | 93,368           |
| NPS Proj 24   | 1.50        | 64,894         | 28,553        | 44,490         | 137,938          |
| <b>Contracts: Stakeholders Support (NPS in PPG)</b> |             |                |               |                | <b>45,675</b>    |
| <b>Aid to Orgs: NPS Projects (NPS Projects 24)</b>  |             |                |               |                | <b>1,027,175</b> |
| <b>TOTALS</b>                                       | <b>4.50</b> | <b>213,712</b> | <b>94,033</b> | <b>146,518</b> | <b>1,527,112</b> |

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### COMMENTS

#### Deliverable 1:

- In addition to WQIG cycle related outreach (described under other deliverables for this task), NPS funding helped to support a wide variety of education and outreach efforts over the course of the fiscal year. In the fourth quarter alone, staff participated in 12 events and watershed group meetings and provided information about nonpoint source pollution threats and potential activities to address them, watershed management, and water quality monitoring. Throughout the rest of the year, youth water quality monitoring events, participation in watershed group and tribal meetings, and guest-speaking opportunities at schools throughout the state helped educate the public about NPS and water quality issues.
- Participated in 7 outreach events with a total of 99 attendees in the San Francisco/Blue, LCR Headwaters, and San Pedro watersheds specifically to encourage rural stakeholder participation in WQIG and EQIP programs. Partnered with NRCS and AZ Game and Fish staff to promote and hold workshops and rancher meetings. In response to feedback that project planning and budgeting could be daunting, new presentations were developed to focus on direct benefits of WQIG participation to ag producers beyond water quality and to provide examples of potential projects, budgets, and match sources. Individual landowners were encouraged to contact ADEQ directly with project ideas and for assistance in application development. WQIG applications were received from all three of these focused areas for Cycle 15, in addition to applications from other Targeted Watersheds. Award decisions will be made in September 2014.
- Providing data, maps

#### Deliverable 2:

- Update technological resources
  - Linked GRTS public project reports to internal WQIG GIS layer, allowing for a direct connection between project location and additional information including contact information, reports and budgets.
  - Updated website with links to alternative and complementary funding sources
  - Utilized webinar technology to expand grant cycle workshop audience
  - Made grant application submittals completely electronic, reducing time and paper waste

#### Deliverable 3:

- NPS 5-Year plan update took more time than initially anticipated. ADEQ worked closely with EPA to discuss plan goals, strategies, and milestones. A draft of the plan was submitted to EPA in March 2014 and comments were provided back to ADEQ in May 2014. ADEQ worked through June to respond to comments and make final edits. The 5-Year NPS plan covers state FY15 – 19 and incorporates CWA Section 303(d) Vision goals as well as ADEQ Strategic Planning goals. The final plan was submitted to EPA on July 3<sup>rd</sup> for review and approval.

#### Deliverable 4:

- ADEQ continued to work closely with state NRCS staff in support of the NWQI. An MOU and Conservation Cooperators Agreement were developed and signed this fiscal year, allowing information about EQIP project locations and activities to be shared with ADEQ. EQIP funding has been awarded to projects in 3 of the 4 NWQI priority areas to date. ADEQ began the process of hiring staff that will support effectiveness monitoring and BMP evaluations for both 319 and NWQI projects during this fiscal year and anticipates hiring in early FY15.
- The USFS MOU was initially extended in FY13 so that the FY15-19 NPS 5-Year Plan goals could be incorporated into the update. Since the 5-Year Plan took longer than anticipated and is not finalized at this time, ADEQ anticipates updating the USFS MOU in early FY15.
- NPS staff coordinated closely with ADOA and ASLD to develop an MOU and funding agreement for the Hillside Mine lower tailings pile project, and with BLM and internal Compliance staff to ensure that activities to address the middle and upper tailings piles were underway as well. While the project changed course after EPA R9 Superfund had to pull anticipated funding, state level agencies were able to coordinate cash and in-kind resources to satisfy estimated project costs. Planning and design for the road into the lower tailings pile site are currently underway, and the construction phase is slated for early calendar year 2015.

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### Deliverable 5:

- ADEQ submitted the FY13 annual report to EPA in September 2013. NPS and TMDL staff combined monthly update calls with EPA to streamline reporting. GRTS-related reporting requirements and goals were met, with the exception of attending GRTS training which was being re-scheduled by EPA. Total load reductions reported in February 2014 for activities taking place in federal fiscal year 13 were: 2,869.39 tons sediment/yr, 156.17 lbs of phosphorus/yr, and 78.09 lbs of nitrogen/yr.

### Deliverable 6:

- The impaired waters table was updated as part of the FY13 annual report and submitted to EPA in September 2013.

### Deliverable 7:

- NPS staff created a decision matrix to help in determining which approach (TMDL, focused TMDL, combined watershed plan, direct implementation, or other alternative) best fits a given impairment situation. This was included in the FY13 annual report and submitted to EPA in September 2013. This matrix was the basis for identifying the integrated watershed plan approach for the Santa Cruz River *E. coli* impairments, which will combine TMDL calculations with WIP development. Grants staff worked with internal (TMDL, Border Programs, SRO) and external (EPA, Tetra Tech, Friends of the Santa Cruz River, the Sonoran Institute, U of A, and others) organizations throughout the fiscal year to share project development information and begin drafting a sampling plan for the project. A funding agreement was developed with U of A to provide local stakeholder and monitoring support for this effort. A draft of the first chapter was submitted to EPA and ADEQ by Tetra Tech in March 2014, with those efforts being shared with local stakeholders in April. It has taken more staff time and effort than initially anticipated to encourage local participation, develop outreach materials, and receive/review data reviews from Tetra Tech; however, we are confident that the project is picking up momentum and that we will have adequate local involvement. Survey and data collection activities are on hold barring the completion of the draft sampling plan, but will begin in early FY15.

### Deliverable 8:

- NPS staff released Cycle 14 of the WQIG program in July 2013 with \$1.2 million available for funding. A total of 9 pre-proposals were submitted for consideration, 3 which were deemed ineligible due to not being impaired for a nonpoint source pollutant of concern. Of the 6 final applications submitted for funding, 3 projects totaling \$440,038 in 319 dollars ultimately scored high enough to be awarded funding. Grant agreements were executed and preliminary site visits held in the spring of 2014. Remaining funding was re-directed toward Cycle 15 and toward the Hillside Mine project described in Deliverable 4.

### Deliverable 9:

- Four scoping meetings focusing on implementing projects identified in the completed San Pedro WIP were held in March of 2014, reaching a total audience of 48 people and resulting in four WQIG applications where we had none in the previous cycle.

### Deliverable 10:

- Cycle 15 is ahead of schedule. Staff focused efforts of RFGA development and outreach to release the cycle in March instead of May to expedite the obligation of unspent 319 funding from Cycle 14. Staff held 4 interactive webinars with 48 total participants to present and answer questions about the RFGA00. In response to the low number of projects qualifying for funding in Cycle 14, staff developed clear language limiting NPS applicability within MS4 permit areas to projects implemented on and to control NPS sources from private property. In addition, outreach was increased as described in Deliverable 1. As a result, Cycle 15 yielded an increased percentage of eligible pre-proposals (83% versus Cycle 14's 66%); 75% of the pre-proposals came from first-time applicants to the WQIG program. Final applications are currently under review. Applications totaling just under \$1.2 million in requested funding are currently under review for the \$1 million in available 319 dollars.

### Deliverable 11:

- \$1,073,488.95 in 319 funding was reimbursed to WQIG projects and contracts during FY14. The University of Arizona continued to provide support to stakeholders in Targeted Watersheds by conducting monitoring trainings, assisting with planning and implementing educational components of active grants, load reduction modeling, and providing general technical support. NPS contracts with U of A moving into FY15 will continue to support stakeholders in this manner,

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with an increased focus on developing volunteer monitoring programs and working with grant applicants to estimate project load reductions prior to applying for 319 funding.

### **Deliverable 12:**

- Effectiveness evaluations for WQIG activities for FY14 focused primarily on the LCR Headwaters targeted watershed. Additional TMDL-focused effectiveness monitoring is described under task 1.3.8. Staff conducted BMP evaluations, and/or overall project maintenance assessments for activities funded under 23 different 319 projects during the fiscal year. NPS staff coordinated with state agencies as described under Deliverable #4 of this task on the Hillside Mine project; pre-implementation monitoring to help determine project effectiveness will take place in FY15. Staff also coordinated with NRCS as described in Deliverable #4 to set up agreements that will allow for ADEQ staff to conduct effectiveness monitoring on EQIP projects funded under the NWQI.
- The Master Target List (MTL) was updated in FY14 and will be included in the FY14 NPS Annual Report, due to EPA in early FY15.
- Extended time frames for other deliverables under this task delayed success story development. Staff will continue to collect data to support success story development for the LCR Headwaters and Tonto/Christopher creeks in FY15.

In addition to the deliverables outlined in this work plan, Grants & Outreach staff worked on the following in FY14:

- Conducted a Value Stream Mapping event to improve processes for monitoring activities in the Surface Water Section and identify additional staffing needs. This effort involved staff from Grants, TMDL, and Ambient Monitoring and resulted in getting approval to hire a total of 8 new monitoring-related positions (funding allowing) over the next three years. Four of these positions are currently in the process of being advertised/interviewed.
- Conducted a Value Stream Mapping event with Grants and TMDL staff to plan out the work steps and processes for effectiveness monitoring and BMP evaluation efforts
- Developed a position description and initiated the hiring process for a Hydrologist III position that will serve as the lead on BMP evaluations and recommendations
- Participated in Association of Clean Water Administrators (ACWA) CWA 319 and CWA 303(d) work groups
- Worked with Oak Creek Canyon Watershed Council to adapt their project-level monitoring plan to account for the impacts of the June Slide Fire in Oak Creek Canyon
- Participated in other webinar and in-person trainings and meetings including:
  - National Nonpoint Source Monitoring Conference
  - CPR and Wilderness First Aid training for field staff
  - Walnut Gulch Experimental Watershed 60<sup>th</sup> Anniversary Workshop
  - Center for Watershed Protection Webinar Course: Design and Construction of BMPs
  - Santa Cruz River Research Days
  - Northwest Environmental Training Center's BIO-410 Webinar Course: Habitat Restoration and Mitigation: Creating a Restoration Plan
  - Northwest Environmental Training Center's BIO-412 Webinar Course: Habitat Restoration and Mitigation: Implementing a Successful Restoration Plan
  - Post- Slide Fire agency coordination meeting with Arizona Department of Emergency Management



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### 1.3.9 QUARTERLY STATUS OF TARGETED WATERSHED ACTIVITIES TABLE

| Targeted Watershed & Pollutant(s) of Concern                            | Type of Project    | Project Status   | Project Exp. Date                          | Additional Comments   |
|---|--------------------|--|--|---|
| Granite Creek – Headwaters to Watson Lake; nutrients and <i>E. coli</i> | WIP Implementation | Stormwater Demonstration Project (#13-004): A subcontractor was hired to design and approve the Whipple Street and Community Center. The Center has been blue staked and the “yellow machines” are ready for excavation. The monitoring lab has been moved to the new Prescott Creek office and training for the staff has been planned. There has been lack of rain thus hampering monitoring. The project is on track for completion in June 2014.                                       | #13-004: 6/30/15                           | Received quarterly report on July 2, 2014. Grantee has completed a hefty portion of on-the-ground work (rain gardens) and is on schedule to close. Also held a workshop and brown bag lunch pertaining to Low Impact Development and improving water quality. |
| Oak Creek – Headwaters to Spring Creek; <i>E. coli</i>                  | WIP Implementation | Midgely Bridge Restroom (#13-002): Education and outreach component is going well. The Friends of the Forest and Ambassadors have picked up a ton of trash and debris. The work with this grant will end after Memorial Day 2014. The project grantee applied for an extension to the contract until June 30, 2014, due to delays with the Federal furlough as well as with USFS and SHPO Approval requirements. SHPO has been approved. Installation of restroom will begin within weeks. | #13-002: 4/30/14-extended to June 30, 2014 | Grant has closed on time-6/30-14. The USFS received permits and restroom construction was completed May 9, 2014. Trash pick-up was completed by Ambassadors. Grantee will submit final reimbursement request and final report by July 31, 2014.               |

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|  |  |  |   |  |
|--|--|--|---|--|
| San Francisco River – Blue River to Limestone Gulch; <i>E. coli</i>                | WIP Implementation                             | Clifton Restroom (#13-003): Project is currently requesting an extension. There have been delays after a September 2014 flooding event and SHPO Clearance. Grantee also requested an advancement to purchase the restroom itself. Grantee also submitted a Monitoring Plan that outlines the before and after installation sampling protocol   | #13-003: 4/30/14-extended in process-to October 31, 2014          | SHPO approval was received. Advanced request was received and the restroom has been ordered. A new Authorized Agent for the Gila Watershed Partnership June 30, 2014. Contract forms have been submitted to account for this change.   |
| Little Colorado River Headwaters – West Fork LCR to Lyman Lake; sediment/turbidity | Watershed-scale NPS implementation project (2) | <p>Coyote Creek (#12-002): Coyote Creek. The contract expired on December 31, 2013. Project manager submitted final report and request for reimbursement late. A post site visit is being planned in a few months.</p> <p>Big Ditch (#13-001): A revised scope of work was submitted and approved. A grant extension was also necessary due to the time frame the ditch is utilized by the public. The extension date is June 30, 2015. Staff has been to site to take water quality samples, flow measurements, and photos.</p> | <p>#12-002: 12/31/13-Closed</p> <p>#13-001: 06/30/15-Extended</p> | <p>Little Colorado RC&amp;D has expressed interest in participating in sediment control projects in other portions of the watershed (specifically, Coon Creek). Sediment load modeling should be revisited to determine what sub-watersheds are the highest priority.</p> <p>Big Ditch submitted a quarterly report which is under review. Progress has been made toward advertising and securing teachers for Master Watershed Steward classes in Greer. Outreach has also been completed at Pioneer Irrigation Board meetings.</p> |

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|  |  |  |     |   |
|--|--|--|-----|---|
| San Pedro River – Babocomari Creek to Dragoon Wash; <i>E. coli</i> | Currently no projects in this watershed.               | WIP completed June 2013.   | N/A | Portions of this watershed have been identified as joint priority for both ADEQ and NRCS for the National Water Quality Initiative. Four grant applications were received from this watershed area for Cycle 15 and are currently under review. Staff has also discussed potential monitoring to expand the WIP area south/upstream with Hereford NRCD and with the Sierra Club. Limited ADEQ resources have prevented moving forward with this at this time. |
| Tonto/Christopher Creeks; nutrients, <i>E.coli</i>                 | Currently no projects in this watershed.               | N/A  | N/A | Effectiveness monitoring for this watershed (see 1.3.8, Table 3).   |
| Upper Santa Cruz River - Mexico border to Tubac Bridge             | Initiating WIP development. No current grant projects. | Met with local stakeholders to discuss watershed planning process. Identified potential fiscal agent for local stakeholder support funding. Finalized ISA with U of A to provide volunteer monitoring and other technical support. | N/A | Draft SAP developed, additional outreach with FOSCR to establish group as local point of contact for monitoring effort. Monitoring and training will begin early FY15.  |

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| GOAL #2: Protecting America's Waters<br>Objective 2.1 Protect Human Health |  | Program #4900: Drinking Water Regulation  |  |
|--|--|---|--|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF   |
| 1.4.1  | <p><b>TASK: Drinking Water Compliance and Enforcement</b></p> <p>Conduct compliance inspections of drinking water systems. Investigate and resolve complaints relating to regulated facilities. Respond to drinking water emergencies.</p> <p>Evaluate, prepare and take informal and formal enforcement actions for violations of state drinking water program statutes and rules and for violations of delegated federal SDWA statutes and rules. Track progress towards meeting compliance schedules. Submit the updated Enforcement Protocol Response (ERP) report within 3 weeks of receipt. Transmit the inspection report to the Drinking Water Monitoring Unit for SDWIS data entry.</p> <p><b>DELIVERABLES:</b></p>                         |   |  |
| PPG<br><br>Wellhead  | <p>1) Drinking water sanitary surveys, prioritized by date of last survey.</p> <p>a) Scheduled inspections of all surface water (SW), surface water purchased (SWP) or ground water under the direct influence of surface water (GWUDI) primary source PWSs are on a two-year cycle.</p> <p>b) Scheduled inspections of all non-community ground water (GW) or ground water purchased (GWP) primary source PWSs are on a five-year cycle.</p> <p>c) Scheduled inspections of all GW and GWP primary source community systems are on a three-year cycle.</p> <p>d) Populate SDWIS sanitary survey fields.</p> <p>e) ADEQ will research, and if appropriate, develop criteria for designation of outstanding performers and submit for EPA review.</p> | <p>a) T = Biennial cycle<br/><b>A = SRO 6; PHX 20</b></p> <p>b) T = 5-yr. cycle<br/><b>A = SRO 28; PHX 110</b></p> <p>c) T = 3-year cycle<br/><b>A = SRO 41; PHX 117</b></p> <p>d) Ongoing<br/>e.) T = 7/1/13      <b>Comment</b></p> | <p>Compliance</p> <p>a) To be determined:<br/>SRO =<br/>PHX/NC =</p> <p>b) To be determined:<br/>SRO =<br/>PHX/NC =</p> <p>c) To be determined:<br/>SRO =<br/>PHX/NC =</p> |
| PPG  | 2) Report the total number of complaints investigated related to drinking water.   | T = Quarterly<br><b>A = SRO 10; PHX 91</b>  | Compliance<br>SRO = As needed<br>PHX = As needed   |
|  | 3) Report the total number of complaints/non-routine drinking water inspections.   | T = Quarterly<br><b>A = SRO 2; PHX 8</b>  | Compliance<br>SRO = As needed<br>PHX = As needed   |

## FY2014 4th Qtr. Final Output Report

| GOAL #2: Protecting America's Waters<br>Objective 2.1 Protect Human Health |   | Program #4900: Drinking Water Regulation  |  |
|--|---|---|--|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF                 |
| 1.4.1  | <b>TASK: Drinking Water Compliance and Enforcement (Cont'd)</b><br><br><b>DELIVERABLES:</b>   |   |  |
| PPG  | 4) Report the total number of informal Drinking Water Enforcement Actions<br>a) Number of Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) issued.<br>b) Number of NOC/NOV Closures issued   | T = Quarterly<br><br>a) <b>A = 155</b><br><br>b) <b>A = 163</b>   | Compliance<br>SRO = As needed<br>PHX = As needed |
| PPG  | 5) Report the total number of formal Drinking Water Enforcement Actions<br>a) Number of Administrative Orders<br>b) Number of Administrative Orders terminated  | T = Quarterly<br><br>a) <b>A = 11</b><br>b) <b>A = 4</b>  | Compliance<br>Agy Director                       |
| PWSS<br>Federal  | 6) Evaluate and respond to EPA's Enforcement Tracking Tool (ETT) Report.<br>a) Based on the ERP report generated, address all public water systems with a score of 11 or higher.<br>b) During the monthly conference calls between ADEQ and EPA, discuss and identify EPA/State workshare (i.e. list of specific systems) for addressing public water systems with a score of 11 or higher.<br>c) Monitor and report progress on State/EPA effort on addressing the commitment.<br>d) Review and provide comment on EPA's Annual Compliance Report. | T = Based on 2012 ETT Report<br>a) 6/30/14 <b>Comment</b><br><br>b) Monthly <b>Comment</b><br><br>c) Mid-yr (12/31/13)<br><b>A = 12/5/13</b><br>d) 7/14 | Compliance                                       |
| PWSS<br>Federal  | 7) Hold monthly meetings and/or conference calls with EPA to discuss drinking water enforcement. Document agreement on discussed items and follow up actions. At least one call each quarter will be devoted to discussing the ERP list and the details of actions taken on each with a score above 10. The dates for the quarterly calls devoted to the ERP list are scheduled as follows to coincide with the ERP Processing Cycle:<br>August 2013<br>November 2013<br>February 2014<br>May 2014  | T = Monthly<br><b>A = 9/16/13;</b><br><b>A = 12/5/13;</b><br><b>A = 2/25/14</b><br><b>A = 6/20/14</b>   | Compliance                                       |

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| GOAL #2: Protecting America's Waters<br>Objective 2.1 Protect Human Health |   | Program #4900: Drinking Water Regulation                          |                                  |
|--|---|---|----------------------------------|
| TASK/<br>GRANT   | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.4.1  | <b>TASK: Drinking Water Compliance and Enforcement (Cont'd)</b><br><br><b>DELIVERABLES:</b> |   |                                  |

| FTE Funding Source            | FTE          | Personnel         | ERE               | Indirect          | Total               |
|-------------------------------|--------------|-------------------|-------------------|-------------------|---------------------|
| WQFF-APP (UW)                 | 0.40         | 20,821            | 9,161             | 14,275            | 44,257              |
| WQFF-APP PWSS Federal {Match} | 1.57         | 88,799            | 39,072            | 60,879            | 188,750             |
| PWSS Federal                  | 3.45         | 146,156           | 64,309            | 100,202           | 310,667             |
| PPG                           | 4.26         | 183,455           | 80,720            | 125,774           | 389,949             |
| Wellhead                      | 0.92         | 48,674            | 21,417            | 33,370            | 103,461             |
| <b>TOTALS</b>                 | <b>10.60</b> | <b>\$ 487,905</b> | <b>\$ 214,678</b> | <b>\$ 334,500</b> | <b>\$ 1,037,083</b> |

In FY 14, the Water Quality Compliance Section (WQCS) and the Southern Regional Office Compliance Program Unit (SROCU) continued their work to ensure that the citizens of Arizona receive safe drinking water and the public water providers meet applicable state and federal standards. During FY14, staff continued implementation of the recommendations resulting from the January 2013, Compliance & Enforcement Kaizen. The Drinking Water Program was one of the pilot programs for field issued inspection reports and Notices of Opportunity to Correct Deficiencies (NOC) for the Water Quality Program. As a result, the average number of days for a facility to receive their inspection report was reduced from 18 calendar days in first quarter of FY14 to 3 calendar days in the fourth quarter of FY14. Additionally, 11 facilities received immediate feedback regarding their deficiencies when they were field issued their NOCs. It is ADEQ's hope that providing more timely feedback will result in quicker resolution of violations. ADEQ will continue to track the efficiency and effectiveness of these process improvements in FY15.

Inspections (Deliverable 1): The WQCS and the SROCU conducted 322 sanitary surveys during FY15 and met the inspection targets for 1(a) and 1(c). The WQCS is up to date with all sanitary surveys for all system types. The target was not met for 1(b), as there is one non-community water system that is past due for the SRO territory. The WQCS and SRO have developed inspection planning strategies to improve efficiencies and ensure that all systems that are due for inspections are completed in a timely manner. 1(e): As recommended by the State Auditor General, the Outstanding Performers Program was implemented in FY14 in an effort to focus resources on systems with violations by reducing the inspection frequencies for top performers.

### Enforcement:

The WQCS issued a total of 12 administrative orders to the following facilities to address drinking water violations:

- Sun Leisure Estates
- Ranch Water Service
- West Village Estates
- Bellmont Water Company
- Chimney Ranch Mobile Home & RV Park
- Desert Market at Casey's Corner
- Yucca Water Association
- The Ranches at Maricopa
- Green Acres Water Company
- Mohawk Utility
- Nissan Technical Driver's Center Lounge
- Maricopa Mountain Domestic Improvement District (order has been terminated)
- Payson Water – Mesa Del Caballo

## **FY 14 4th QUARTER FINAL OUTPUT REPORT**

A civil penalty settlement of \$3,000 was negotiated with Pine Valley Water Company. Four administrative orders were terminated when the facilities resolved the associated violations.

Deliverable 6: At the beginning of FY14, there were 91 facilities with a score of 11 or higher. Maricopa County had 9 facilities and Pima County had 12 facilities under their delegation on the list.

Overall, 63 facilities were addressed during FY14. Ten of these facilities were addressed by delegated Counties. Specifically,

1. There were a total of 58 facilities with a score less than 11.
2. 7 facilities had a score of 11 or higher but are under an ADEQ formal enforcement action.
3. 1 facility had a score of 11 or higher but was under an EPA enforcement action.
4. 3 facilities had a score of 11 or higher but there were no outstanding violations in Drinking Water Watch or had violations that were resolved but still open due to data quality issues.

The Drinking Water Section underwent a major project to clean up the data error issues and began running compliance for several rules in SDWIS. While this improved our ability to identify systems that were out of compliance with these rules, it did have a dramatic uptick of systems that were out of compliance because in the past these rules needed to be evaluated manually. During this data clean up, it was difficult to determine whether the ETT list accurately reflected the systems that were out of compliance.

At the end of FY14, the Drinking Water Section developed a method to run a “live” ETT list which should help identify systems that are out of compliance in real time, and it will assist in identifying data quality issues prior to uploading data for the official ETT tracker.

## FY 14 4th QUARTER FINAL OUTPUT REPORT

| GOAL #2: Protecting America's Waters |  | Program #4900: Drinking Water Regulation<br>Program #4400: Underground Water Regulation |                                    |
|--------------------------------------|--|---|------------------------------------|
| Objective 2.1 Protect Human Health   |  |   |                                    |
| TASK/<br>GRANT                       | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL                       | RESPONSIBLE<br>SECTION/<br>STAFF   |
| 1.4.2                                | <p><b>TASK: Groundwater Compliance and Enforcement</b></p> <p>Implement measures to protect Arizona aquifers that serve as drinking water sources.</p> <p>Evaluate, prepare and take informal and formal enforcement actions for violations of state water quality statutes, rules and permit conditions. Track progress towards meeting compliance schedules.</p> <p><b>DELIVERABLES:</b></p> |   |                                    |
| Wellhead<br><br>PPG                  | <p>1) Perform scheduled inspections of facilities possessing the following permit types:</p> <ul style="list-style-type: none"> <li>a) Individual APP</li> <li>b) General APP</li> <li>c) GWPP/NOD</li> <li>d) Reuse</li> </ul> <p>(NPS Objective 1.C.1)</p>   | T = Risk-based inspection criteria<br><b>A= SRO 41;<br/>PHX 97</b>                      | Compliance<br>SRO = 32<br>PHX = 89 |
| PPG                                  | <p>2) Report total number of Informal Groundwater Enforcement Actions</p> <ul style="list-style-type: none"> <li>a) Number of Notices of Opportunity to Correct (NOCs) and/or Notices of Violation (NOVs) issued.</li> <li>b) Number of NOC/NOV Closures issued</li> </ul>   | <p>T = Quarterly</p> <p>a) <b>A = 39</b></p> <p>b) <b>A = 40</b></p>                    | Compliance                         |
| PPG                                  | <p>3) Report total number of Formal Groundwater Enforcement Actions.</p> <ul style="list-style-type: none"> <li>a) Number of Administrative Orders issued.</li> <li>b) Number of Administrative Orders terminated</li> </ul>   | <p>T = Quarterly</p> <p>a) <b>A = PHX 4</b></p> <p>b) <b>A = PHX 2</b></p>              | Compliance                         |



## FY 14 4th QUARTER FINAL OUTPUT REPORT

|   |  |  |   |
|---|--|--|---|
| <b>GOAL #2: Protecting America's Waters</b> |  | <b>Program #4900: Drinking Water Regulation</b>                            |   |
| <b>Objective 2.1 Protect Human Health</b>   |  | <b>Program #4400: Underground Water Regulation</b>                         |   |
| <b>TASK/<br/>GRANT</b>                      | <b>OUTPUT DESCRIPTION</b>  | <b>EVALUATION, DATE OR<br/>QUANTITY (CUMULATIVE)<br/>T=TARGET A=ACTUAL</b> | <b>RESPONSIBLE<br/>SECTION/<br/>STAFF</b> |
| <b>1.4.2</b>                                | <b>TASK: Groundwater Compliance and Enforcement<br/>(Cont'd)</b><br><br><b>DELIVERABLES:</b> |  |   |

| <b>FTE Funding Source</b>   | <b>FTE</b>   | <b>Personnel</b> | <b>ERE</b>     | <b>Indirect</b> | <b>Total</b>     |
|-----------------------------|--------------|------------------|----------------|-----------------|------------------|
| WQFF-APP                    | 1.65         | 78,920           | 34,725         | 54,106          | 167,751          |
| WQFF APP PWSS FED {Match}   | 1.18         | 62,213           | 27,374         | 42,652          | 132,239          |
| WQFF-APP NPS in PPG {Match} | 0.41         | 19,057           | 8,385          | 13,065          | 40,507           |
| WQFF-APP PPG [Match]        | 0.92         | 42,789           | 18,827         | 29,335          | 90,952           |
| WQARF NPS in PPG {Match}    | 0.50         | 20,274           | 8,921          | 13,900          | 43,094           |
| Wellhead                    | 4.32         | 219,442          | 96,554         | 150,446         | 466,442          |
| PPG                         | 6.79         | 289,121          | 127,213        | 198,217         | 614,551          |
| <b>TOTALS</b>               | <b>15.77</b> | <b>731,816</b>   | <b>321,999</b> | <b>501,721</b>  | <b>1,555,536</b> |

The Water Quality Compliance Section (WQCS) and the Southern Regional Office Compliance Unit (SROCU) continued to protect groundwater sources in Arizona and ensure compliance with state aquifer protection standards in FY13. The WQCS and SROCU exceeded inspection targets by 17 inspections. The WQCS issued four administrative orders for the Aquifer Protection Permit Program and terminated two administrative orders when the facilities met the conditions of the order. A civil complaint was filed against Virgin River DWID for both APP and AZPDES violations.

During FY14, the WQCS worked to address the problems with the Water Compliance Tracking database. It was difficult to evaluate monitoring and reporting compliance due to errors in the database's violations reports. The reports have since been corrected and the Water Quality Data Unit is developing a systematic process to ensure that compliance reports are evaluated in a timely manner. Additionally, an electronic reporting program is in development and scheduled for release in FY15.

The WQCS and SROCU implemented field inspection checklists for the Aquifer Protection Program near the end of the fiscal year. It is expected that there will be a dramatic reduction in the length of time for facilities to receive their inspection reports in FY15. The WQCS and SROCU are working to develop and implement a field issued Notice of Opportunity to Correct Deficiencies (NOC) in FY15.

Finally, the WQCS and the SROCU developed a risk-based inspection strategy in FY14 to target facility inspections and ensure adequate inspection coverage and effectively utilize resources. The strategy will be implemented in FY15.

## FY 14 4th QUARTER FINAL OUTPUT REPORT

|   |  |   |  |
|---|--|---|--|
| GOAL #2: Protecting America’s Waters                            |  | Program #'s:  | 4500: Surface Water Regulation<br>4400: Underground Water Regulation |
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems |  |   |  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL | RESPONSIBLE<br>SECTION/<br>STAFF                                     |
| 1.4.3   | <p><b>TASK: Surface Water Compliance and Enforcement</b></p> <p>Conduct site inspections of AZPDES regulated facilities. AZPDES inspection reports will encompass applicable activities as described in the NPDES Compliance Inspection Manual (EPA 305-x-04-001, July 2004).</p> <p>Pretreatment audits and inspections shall be performed in accordance with “Pretreatment Compliance Inspection and Audit Manual for Approval Authorities” (EPA 833/B-86-100, July 1986)</p> <p>Review each AZDPES permit application from publicly owned treatment works (POTW) without a pretreatment program to determine whether any significant industrial users (SIU) are discharging to the POTW. If so, require the POTW to develop a pretreatment program (full or SIU oversight only in the subsequent permit or alternatively ad the SIUs to the State’s SIU inventory.</p> <p>Review and approve new programs (full or SIU-oversight only) and changes to approved pretreatment programs submitted by POTWs. Provide written analyses to the POTWs when such submittals are unapprovable.</p> <p>Evaluate, prepare, and take informal and formal enforcement actions for violations of water quality statutes, rules and permit conditions and federal CWA statutes, rules and permit conditions. Track progress towards meeting compliance schedules.</p> <p>Enter discharge monitoring report data into ICIS for major and minor facilities within 20 days of receipt.</p> <p>Enter permit and facility inspection and enforcement action information into ICIS within 30 days of receipt.</p> <p>a. Permit and facility data (majors and minors)</p> <p>b. Inspection data (majors/minors)</p> <p>c. Enforcement Action (majors/minors)</p> <p>Continue implementation of the Border Strategy Plan by identifying water quality transboundary issues, coordinating with U.S. and Mexican counterparts toward the resolution of respective issues, and conducting water quality studies in the Arizona border region.</p> <p><b>DELIVERABLES:</b></p> |   |  |

## FY 14 4th QUARTER FINAL OUTPUT REPORT

| GOAL #2: Protecting America's Waters                            |   | Program #'s:   | 4500: Surface Water Regulation   |
|---|---|--|--|
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems |   | 4400: Underground Water Regulation   |  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF   |
| 1.4.3   | <b>TASK: Surface Water Compliance and Enforcement (Cont'd)</b><br><br><b>DELIVERABLES:</b>  |  |  |
| PPG   | 1) NPDES inspections:<br>a) Scheduled compliance inspections of all major facilities that are operational.<br>b) Perform scheduled compliance inspections of AZPDES minor point source facilities. (89/5).<br>c) ADEQ will research and, if appropriate, submit a risk-based approach for inspection to EPA. EPA and ADEQ will finalize the inspection plan by 9/30/2013.                           | <b>Comment</b><br>a) T = Biennial cycle<br><b>A = SRO 3; PHX 23</b><br>b) T = 5-year cycle<br><br>c) T = 7/31/13 <b>A = 7/13</b><br>Total Inspections: <del>53</del> 58  | Compliance<br>SRO = 6<br>PHX = 29  |
| PPG   | 2) Perform scheduled compliance inspections of AZPDES minor point source facilities. Inspect all minor AZPDES facilities on a five-year cycle with at least 20% of minor facilities inspected annually (89/5). (ADEQ will develop a criteria for reduced inspection frequencies based upon risk and submit for EPA review.)   | T = Risk-based<br><b>A = SRO 2; PHX 34</b><br><b>Comment</b>   | Compliance<br>SRO = 2<br>PHX = 16  |
| PPG   | 3) Conduct inspections of stormwater facilities subject to general permitting requirements.<br>a) Industrial<br>b) Construction<br>i) Phase 1 (facilities larger than 5 acres)<br>ii) Phase 2 (facilities between 1-5 acres)<br>* Inspections of facilities that do not have permit coverage but are subject to general permitting requirements shall count toward the total number of inspections. | T =<br><br><b>A = 6</b><br><br>a) 50<br><b>A = SRO 19; PHX 134</b><br>b) 50 (Phase 1 & 2):<br>bi) Phase 1 = 30<br><b>A = SRO 20; PHX 44</b><br>bii) Phase 2 = 20<br><b>A = SRO 3; PHX 50</b><br><b>Comment</b> | Compliance<br><br>a) SRO = 13<br>PHX = 37<br>b) SRO<br>Phase I = 8<br>Phase II = 7<br>PHX<br>Phase I = 22<br>Phase II = 13 |
| PPG   | <del>4) Implement activities for MS4 Permittees</del><br><del>a) Phase I</del><br><del>i) Conduct one audit of each permittee once every five years</del><br><del>ii) Conduct inspections on an as needed basis</del><br><del>b) Phase II</del><br><del>i) Perform one audit of each permittee once every seven years</del><br><del>ii) Conduct inspections on an as needed basis.</del>            | <del>T =</del><br><br><del>ai) 0</del><br><br><del>bi) 8</del>   | Compliance<br><del>PHX</del><br><b>Deliverable moved to 1.3.1 #5</b>   |
|   | 5) Perform compliance inspections of CAFO/AFO facilities (permitted and unpermitted).<br>a) Inspect all AZPDES permitted CAFOs on a five-year cycle.  | T = 1 <b>A = 35</b><br><b>Comment</b>  | Compliance<br>PHX  |

## FY 14 4th QUARTER FINAL OUTPUT REPORT

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## FY 14 4th QUARTER FINAL OUTPUT REPORT

| GOAL #2: Protecting America’s Waters                            |  | Program #'s: 4500: Surface Water Regulation<br>4400: Underground Water Regulation  |                                  |
|---|--|--|----------------------------------|
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems |  |  |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.4.3   | TASK: Surface Water Compliance and Enforcement (Cont’d)<br><br>DELIVERABLES:   |  |                                  |
|   | 9) Report total number of complaints relating to Clean Water Act.<br>a) Complaints received<br>b) Number of complaint/non-routine surface water inspections.   | T = Provided at Mid-Year and Year-End Output Reports<br>a) A = 59<br>b) A = 24<br>Comment  | Compliance                       |
| PPG   | 10) Prepare and submit quarterly reports to EPA for all types of AZPDES facilities including individually permitted major and minor facilities, facilities covered by general permits and unpermitted facilities subject to CWA requirements. The quarterly reports shall include the following information:<br>a) A list of ADEQ’s formal and informal enforcement actions. For each action, provide the name of the facility and the date and type of enforcement action.<br>b) A list of inspections conducted by ADEQ. For each inspection include the name of the facility, the permit number and the date and type of inspection performed at the facility.<br>c) A list of NOC/NOV closures issued including the name of the facility and the date of closure.<br>d) A list of Administrative Orders terminated including the name of the facility and the date the order was terminated. | T = Quarterly as follows:<br><br>8/15/13 A = 8/15/13<br>11/15/13 A = 11/27/13<br>2/15/14 A = 2/14/14<br>5/15/14 A = 6/13/14<br>Comments            | Compliance<br>Agency Director    |
|   | 11) Complete quarterly compliance reviews and submit for the following:<br>a) The automated QNCR (major/minor facilities) from ICIS<br>b) Responses to the quarterly watch list generated in 7/13, 10/13, 1/14, 4/14.  | T =<br><br>Comment<br><br>a) 9/07/13, 12/12/13, 3/12/14, 6/11/14<br>A = 8/30/13; 12/12/13; 3/24/14; 6/6/14<br>b) Within 30 days<br>A = 8/13; 12/13 | Compliance                       |
|   | 12) Begin entering major and minor DMR compliance data in the ICIS production environment.   | T = Immediately upon completion of the migration process of the Arizona data in PCS to ICIS by the EPA.<br>Comment                                 | Compliance                       |

## FY 14 4th QUARTER FINAL OUTPUT REPORT

| GOAL #2: Protecting America’s Waters                            |   | Program #'s: 4500: Surface Water Regulation<br>4400: Underground Water Regulation |                                  |
|---|---|---|----------------------------------|
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems |   |   |                                  |
| TASK/<br>GRANT  | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL                 | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.4.3   | <b>TASK: Surface Water Compliance and Enforcement (Cont’d)</b><br><br><b>DELIVERABLES:</b>  |   |                                  |
|   | 13) Hold meetings and/or conference calls with EPA to discuss timely and appropriate CWA enforcement. (*) Document agreement on discussed items on follow up actions. One call each quarter will be devoted to discussing the QNCR/QNVR list and the details of actions taken on each SNC on the QNCR list. | T = 12                      A = 10  |                                  |
|   | 14) Support hydrologic investigative work on the Nogales Grand Avenue WQARF site.   | T = As needed   | SRO                              |
|   | 15) Act as liaison with the IBWC, federal, state and local agencies to help plan, prepare and prevent transboundary sewer flows.  | T = As needed   | SRO                              |
|   | 16) Update the Compliance Monitoring Strategy Worksheet for FY14.   | T = 8/1/13 <b>Comment</b>   | Compliance                       |

### FOOTNOTES:

(\*) EPA's policy defines "timely" enforcement as formal enforcement taken against a facility in significant non-compliance ("SNC") within 5 ½ months of the end of the quarter in which the facility first appears as SNC on a Quarterly Non-Compliance Report ("QNCR"). Formal enforcement is defined by EPA as an administrative order or civil action that requires the facility to return to compliance. EPA will consider taking formal enforcement action against SNC facilities if ADEQ does not issue a timely formal enforcement action.

| FTE Funding Source             | FTE          | Personnel      | ERE            | Indirect       | Total            |
|--------------------------------|--------------|----------------|----------------|----------------|------------------|
| WQFF-AZPDES                    | 7.32         | 364,992        | 160,596        | 250,233        | 775,821          |
| WQFF-AZPDES NPS in PPG {Match} | 0.75         | 40,455         | 17,800         | 27,735         | 85,991           |
| WQFF-APP                       | 2.66         | 133,335        | 58,667         | 91,412         | 283,415          |
| WQFF-APP NPS in PPG {Match}    | 0.25         | 13,991         | 6,156          | 9,592          | 29,739           |
| WQARF PPG {Match}              | 0.50         | 20,274         | 8,921          | 13,900         | 43,094           |
| PPG                            | 5.64         | 254,114        | 111,810        | 174,216        | 540,141          |
| <b>TOTALS</b>                  | <b>17.12</b> | <b>827,161</b> | <b>363,950</b> | <b>567,088</b> | <b>1,758,200</b> |

In FY 14, the Water Quality Compliance Section (WQCS) and the Southern Regional Office Compliance Program Unit (SROCU) continued to protect surface water and enforce federal and state regulations. During FY14, staff continued implementation of the recommendations resulting from the January 2013, Compliance & Enforcement Kaizen. Specifically for the AZPDES Program, field issued standardized inspection reports were developed and implemented for the stormwater, pretreatment, and point-source programs. ADEQ will continue to track the efficiency and effectiveness of these process improvements in FY15.

AZPDES Inspections (Deliverables 1&2): During FY14, the WQCS and SROCU developed a risk-based strategy to more efficiently utilize resources and target those facilities that required additional attention as recommended by the State Auditor

## **FY 14 4th QUARTER FINAL OUTPUT REPORT**

General. The Alternate Compliance Strategy (ACMS) was submitted to the EPA for approval in July 2013, but it was not approved. The EPA recommended that the WQCS use the inspection targeting tool available in ICIS. However, due to the issues flowing data into ICIS, the WQCS was unable to utilize the tool. In the interim, the WQCS and the SROCU implemented the ACMS and focused on the high-risk facilities that were primarily minor facilities. The WQCS and SROCU exceeded the inspection target for minors by 18 facilities.

At mid-year when it became evident that an agreement could not be reached to reduce the inspection frequencies for major facilities, ADEQ agreed to continue conducting the inspection on a biennial cycle for the remainder of FY14. Because of the lateness of planning and staff vacancies the inspection target was missed by 9 inspections for major facilities. The inspection targets were exceeded for minor facilities.

Field issued inspection reports were implemented in the fourth quarter of FY14. As a result, the average length of time for a facility to receive an inspection report was reduced from 20 days to 13 days.

ADEQ would like to continue negotiations of the ACMS in FY15.

Stormwater Inspections (Deliverable 3): During FY15, several process improvements were implemented specifically related to the stormwater program. The stormwater program was one of the pilot programs for field issued inspection reports and Notices to Correct Deficiencies (NOC)s for the Water Quality Programs. This resulted in a reduction of the length of time for a facility to receive an inspection report from 24 days in the first quarter of FY14 to 1 day in the fourth quarter of FY14 with a total of 249 facilities receiving their inspection at the time of the inspection. Additionally, 38 facilities received immediate feedback regarding deficiencies identified during their inspections when they were field issued their NOCs. It is ADEQ's hope that providing more timely feedback will result in quicker resolution of violations. ADEQ will continue to track the efficiency and effectiveness of these process improvements in FY15. Additionally, a risk-based inspection strategy was developed in FY14. It will be implemented in FY15 to more effectively target stormwater inspections.

The WQCS and SROCU exceeded all the inspection targets for MSGP by 103 inspections and for Phase I CGP by 14 inspections. While the SROCU missed their individual inspection target for Phase II CGP inspections by 3 inspections, overall the target was exceeded by 33 inspections.

Concentrated Animal Feeding Operations (Deliverable 5): The WQCS exceeded inspection targets by 34 inspections.

Biosolids Inspections (Deliverables 6 & 7): The WQCS met or exceeded all inspection targets for the biosolids program. Additionally, the biosolids program coordinator reviewed 34 annual reports, exceeding targets.

Pretreatment Program (Deliverable 8): The Pretreatment Coordinator conducted a review of each AZPDES permit application from any publicly owned treatment works to determine whether any significant industrial users are discharging to the POTW and whether a pretreatment program is required. The Pretreatment Coordinator conducted two Pretreatment Compliance Audits (Queen Creek and Scottsdale). Additionally, five Pretreatment Compliance Inspections were conducted (Mesa, Phoenix, Tempe, Yuma, Avondale, and Glendale). The Pretreatment Coordinator approved 3 new pretreatment programs in FY14 for the Goodyear, Kingman, and Prescott.

Complaints (Deliverable 9): The WQCS received total of 59 complaints relating to the Clean Water Act which resulted in a 24 non-routine inspections.

Water Quality Data Management (Deliverables 11 & 12): The WQCS submitted all quarterly compliance reviews on time. The WQCS was able to partially complete the commitment in Deliverable 12. Some DMR data and all inspection data and informal enforcement data is flowing into ICIS. However, some data gaps still remain due to rejects. The WQCS continues to work to address this issue; however, it involves coordination with the ADEQ's IT Department. The WQCS recommends adding a deliverable to FY15 Work Plan to assure EPA IX of their commitment to complete the task. The WQCS continues to enter all permit and DMR information and tracks compliance using their state database.

## FY 14 4th QUARTER FINAL OUTPUT REPORT

**Enforcement (Deliverable 10):** The WQCS issued administrative orders to address violations of the Clean Water Act at the following facilities. Two administrative orders were terminated when the facility completed the items in the compliance schedule.

- ASARCO Ray Mine Unit
- Town of Florence, WWRF, South Plant
- Hillside Mine
- Kings Ranch – Unit II WWTP
- Kingman Stopping Center
- World Fashion of Cars Recycling
- Houston Creek Landing
- Continental County Club

The WQCS also filed a civil complaint against Virgin River Domestic Water Improvement District for both CWA and APP violations occurring at their wastewater treatment plant. The WQCS worked with EPA Region IX to close a 1998 Consent Decree against ASARCO.

**Monthly Meetings (Deliverables 13):** Only 10 meetings were held during FY14. On two occasions the meetings were mutually cancelled due to scheduling constraints.

**Compliance Monitoring Worksheet (Deliverable 16):** The WQCS did not complete the worksheet by the August deadline. At that time negotiations over the ACMS were still underway.

**SRO (8e):** On July 10, staff met with the Nogales, Sonora, Water Utility (OOMAPAS-NS) to summarize the latest wastewater quality concerns and issues focused on metals and cyanide. OOMAPAS-NS identified one source of cadmium discharges for follow-through. On August 9, staff prepared a summary of Arizona-Mexico Commission Environment and Water and Environment Committee activities in support of Ambos Nogales pretreatment programs for the September AMC publication “Catalyst”. On September 19, staff met with the Nogales, Sonora, pretreatment administrator noting that cyanide is being detected more frequently in Sonora wastewater relative to past quarterly monitoring events. Based on Arizona concerns, OOMAPAS-NS confirmed it would initiate weekly monitoring of three collectors on a rotating basis for source characterization, which continues through the present. On October 3, OOMAPAS-NS shared details regarding a new AZPDES permit issued to the U.S. International Boundary and Water Commission (IBWC) for the Nogales International Wastewater Treatment Plant (NIWWTP). Staff discussed strategies for conveying details regarding wastewater quality from Sonora to regulators and the regulated community. The last two quarters of IBWC pretreatment data were used to populate new PowerPoint templates in support of a new model for communication. On October 30, representatives of Ambos Nogales communicated that data presented through these templates was much more understandable. On November 29, the templates were shared with the SRO Compliance Unit in support of new conditions in the AZPDES permit issued to IBWC for the NIWWTP. On October 30, staff participated as an observer in a pretreatment training inspection conducted by the city of Nogales, Arizona, at the Holy Cross Hospital. On December 6, staff met with the OOMAPAS-NS pretreatment administrator as well as with the secretary of the Nogales, Sonora, chapter of Environmental Safety Professionals (APSA) to review the latest wastewater quality sourced to the municipality. Staff presented the data at a formal meeting of APSA on December 11 with the Mexican Section of the U.S. International Boundary and Water Commission (CILA) present. The templates were shared with the IBWC on December 12 and 13. In December, staff also assisted project leads on clarifications related to a pretreatment training workshop being funded through EPA’s U.S.-Mexico Border 2020 Environmental Program and managed by the Border Environment Cooperation Commission (BECC). A technical assistance contract was subsequently signed between the project lead and the BECC on March 26. On February 20, staff updated Lopez Plating Services (LPS) in Arizona with the latest details regarding binational wastewater quality data and requested LPS review pretreatment for associated problem contaminants. On March 25, staff presented IBWC-AZPDES and reporting requirements at a binational technical committee meeting hosted by IBWC, and again on March 26 at a Border 2020 meeting in Nogales, Sonora. On April 4, staff shared AZPDES requirements and pretreatment data with the Association of Maquiladoras of Sonora. On June 24, staff coordinated a field trip for Arizona State University (ASU) to visit Alcoa Fastening Systems in Tucson, and the Nogales International Wastewater Treatment Plant in Rio Rico. ASU will use information gathered from the visit in support of pretreatment training materials being developed through the EPA Border 2020 program. On June 25, staff coordinated a field trip for binational stakeholders to the 23rd Avenue Wastewater Treatment Plant in Phoenix. Alternative wastewater monitoring technologies were discussed for improving communication with Mexico related to



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pretreatment of wastewater. On June 25, IBWC presented 2nd quarter (2014) pretreatment monitoring results to binational stakeholders using the templates developed by ADEQ.

**SRO (14):** On September 9, staff met with the new program manager and hydrologist for the Nogales Grand Avenue site. Relevant files on common drives were summarized and a new GIS project was created to help facilitate review of the most important information associated with the site. On September 30, details for six new wells were submitted to the ADEQ Water Quality Database for site-number registration. On November 15, staff completed importing over 300 geo-referenced photos collected in Nogales, Arizona, into a geodatabase prepared for the Nogales Grand Avenue. Additions to the geodatabase reflecting photos collected in Nogales, Sonora, were addressed by an intern throughout the month of February, and approximately 11,000 water quality records were submitted to ADEQ's water quality database liaison on June 4.

**SRO (15):** On July 9-12 and July 24-26, sewage in Nogales Wash was documented by IBWC. During both incidents, staff engaged OOMAPAS-NS for source mitigation and improved disinfection. Staff worked with the IBWC and City of Nogales to monitor progress on repairs to the exposed section of the International Outfall Interceptor (IOI) and potable water line crossing the Nogales Wash, which took five weeks and \$950,000 to complete. It was completed by August 23. Staff also performed transboundary sewer flow overflow (SSO) reconnaissance after a large storm in Ambos, Nogales that occurred on July 9. Two transboundary sewer flows into the Nogales Wash were reported by IBWC during the first quarter. On July 12, IBWC treated Trickey Wash for an SSO that occurred the prior day. On July 18, IBWC indicated that high analysis results for total coliform sampling indicated there was wastewater in the Nogales Wash. On July 24, IBWC contacted their Mexican counterparts (CILA) because they were still seeing high fecal coliform samples after large binational rainstorm events. On July 26, staff spoke to contacts with the Nogales, Sonora water utility and they agreed to address SSOs by working on hot-spots within the collector. On August 22, staff dropped off information, including forms, for the City of Nogales to apply for U.S. Army Corps of Engineers Rehabilitation and Inspection Program funding to evaluate the Nogales Wash. On October 3, staff provided a tour of three EPA Border Water Infrastructure Program projects to an economist fellow from EPA Headquarters: the Willcox Wastewater Treatment Plant Improvements; Douglas Bay Acres Colonia Sanitary Sewer Improvement and WWTP Expansion; and Tintown Colonia Sanitary Sewer Improvement Projects. On October 7, staff made recommendations to the Water Quality Division regarding a draft Nogales Wash Sample Analysis Plan for responding to sanitary sewer overflows. A final SAP was approved by the Water Quality Division on October 30. On December 5, staff attended the first IBWC Douglas/Aqua Prieta Flooding Issues Bi-National Technical Committee (BTC) meeting. On January 3, staff completed reviewing and providing comments at the request of the city of Nogales on the scope of work (SOW) for design services to rehabilitate, replace, or a combination of both, of the International Outfall Interceptor (IOI). Nogales forwarded the comments to the U.S. IBWC. On February 12, both the U.S. IBWC and the city were provided with the answer to a question regarding the IOI breach under the Nogales Wash that was caused by heroin drug smugglers; staff conveyed a response from ADEQ's Water Quality Division that any repair to the IOI not replaced with existing pipe requires an ADEQ Construction Authorization Permit. Staff attended the February 12 and March 25 International Boundary and Water Commission's (IBWC) Nogales Binational Technical Committee (BTC) meetings in Rio Rico and Nogales, Sonora, respectively. On March 13, staff began discussions with the EPA on providing redundancy to the El Tecnológico lift station in Nogales, Sonora, to prevent future fugitive transboundary sewer flows caused by overflows resulting from shutting down the lift station to perform maintenance and sending wastewater through overtaxed infrastructure into Arizona. On May 5, staff accompanied the EPA and BECC to a meeting/tour with the Nogales, Sonora, water and wastewater utility (OOMAPAS-NS). Included were discussions of the Mascareñas Wastewater Treatment Plant and tours of the Southwest Colonias Project (which will add 3,506 wastewater connections in Nogales, Sonora), El Tecnológico Pumping Plant (which pumps wastewater away from Arizona), and Los Alisos Wastewater Treatment Plant (which treats wastewater that is directed away from the border.) On June 3, staff attended the kick-off meeting for the design services for rehabilitation, replacement, and/or a combination of both, for the International Outfall Interceptor (IOI) in Nogales, Arizona. On June 25, staff attended IBWC's Nogales Binational Technical Committee meeting.

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| <b>GOAL #2: Protecting America's Waters</b>  |   | <b>Program #s 4400: Underground Water Regulation</b><br><b>4500: Surface Water Regulation</b><br><b>4900: Drinking Water Regulation</b> |                                  |
|--|---|---|----------------------------------|
| <b>Objective 2.1</b> Protect Human Health<br><b>Objective 2.2</b> Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |                                  |
| TASK/<br>GRANT   | OUTPUT DESCRIPTION  | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.5.1  | <b>TASK: Division &amp; Section Management</b><br><br>Manage Water Quality Division and Section programs. Perform managerial, administrative, and other program duties. Advise management team and provide guidance and training to staff. Provide program oversight and guidance to regional staff performing tasks under the integrated work plan. Coordinate development and implementation of delegation agreements. Coordinate necessary rules and policy development for division programs.<br><br>Coordinate with EPA on Border 2020, or subsequent U.S.-Mexico border environmental program activities, and provide technical support as feasible on projects funded through the program.<br><br><b>DELIVERABLES:</b> |   |                                  |
| PPG  | 1) Reports<br>a) Section FY14 Output Report to WQ Planning Unit. Due 15 days after the end of each state FYquarter.<br>b) <del>Section Performance Measures Report to WQ Planning Unit. Due 11 days after end of each quarter. (See 1.5.2, #2c)</del>   | T =<br>a) Quarterly                      A = 4<br><br>b) Quarterly  | All Sections                     |
| PPG  | 2) Participate in or chair meetings with binational stakeholders regarding issues and remedies to the water quality impairment of shared watersheds along the US/Mexico border including Nogales Wash in Ambos Nogales.   | T = As required<br><b>Comments</b>  | Director<br>SRO                  |
| PPG<br>PWSS<br>Federal   | 3) EPA/ADEQ grant meetings:<br>a) End of year review for FY13<br>b) Mid-year review for FY14<br>c) EPA negotiation meetings for FY15  | T =<br>a) 9/13                      A = 12/20/13<br>b) 2/14                      A = 2/14<br>c) 4/14                      A = 4/14      | All Sections                     |

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| <b>GOAL #2: Protecting America's Waters</b>                             |   | <b>Program #s 4400: Underground Water Regulation<br/>4500: Surface Water Regulation<br/>4900: Drinking Water Regulation</b> |   |
|---|---|---|---|
| <b>Objective 2.1</b> Protect Human Health                               |   |   |   |
| <b>Objective 2.2</b> Protect & Restore Watersheds & Aquatic Ecosystems. |   |   |   |
| <b>TASK/<br/>GRANT</b>  | <b>OUTPUT DESCRIPTION</b>   | <b>EVALUATION, DATE OR<br/>QUANTITY (CUMULATIVE)<br/>T=TARGET A=ACTUAL</b>  | <b>RESPONSIBLE<br/>SECTION/<br/>STAFF</b> |
| <b>1.5.1</b>  | <b>TASK: Division &amp; Section Management</b><br><br><b>DELIVERABLES:</b>  |   |   |
|   | 4) <del>Review and respond to incremental privacy crosswalks comments as provided by EPA for Stage 1 D/DBPR, Stage 2 D/DBPR, and Administrative Penalty Authority. (Deliverable moved to Task 1.1.6 #5)</del> | <del>T = Within 45 days of receipt from EPA Region 9</del>  | <del>Drinking Water</del>                 |

| <b>FTE Funding Source</b>               | <b>FTE</b>   | <b>Personnel</b> | <b>ERE</b>     | <b>Indirect</b> | <b>Total</b>     |
|---|--------------|------------------|----------------|-----------------|------------------|
| WQFF-AZPDES                             | 0.08         | 4,553            | 2,003          | 3,121           | 9,678            |
| WQFF-APP                                | 1.41         | 88,967           | 39,145         | 60,994          | 189,107          |
| WQFF-APP PWSS FED {Match}               | 0.50         | 21,830           | 9,605          | 14,966          | 46,401           |
| WQFF-APP PPG {Match}                    | 0.08         | 4,224            | 1,859          | 2,896           | 8,978            |
| PPG                                     | 4.95         | 318,444          | 140,115        | 218,320         | 676,879          |
| PWSS Federal                            | 3.03         | 166,522          | 73,270         | 114,165         | 353,956          |
| <b>Contract: Attorney General (PPG)</b> |              |                  |                |                 | <b>100,000</b>   |
| <b>TOTALS</b>                           | <b>10.05</b> | <b>604,540</b>   | <b>265,997</b> | <b>414,462</b>  | <b>1,384,999</b> |

**SRO (2):** On July 10, staff presented at the monthly meeting of the Nogales, Sonora, Chapter of the Association of Environmental Safety Professionals (APSA). Staff summarized the latest wastewater quality concerns associated with metals and cyanide sourced to Sonora. Staff supported APSA in the development of a proposal to the EPA Border 2020 Program to develop a pretreatment certification program for metal plating facilities in Nogales, Sonora. Staff also worked with the Water Quality Division on the development of a proposal to hold Wastewater Operator Training Workshops in the border region. Both proposals were submitted to the EPA Border Program on July 31. On July 31, staff coordinated with border stakeholders for the submission of three proposals to the EPA Border 2020 Program. On September 27, staff finalized two presentations summarizing the EPA Border 2020 Program and past projects. On October 3, staff presented on environmental projects that were piloted or have been supported through Border 2012/Border 2020 Program funding. Administrators, instructors and graduate students of the Instituto Tecnológico de Nogales (ITN) were the audience. On November 1, staff prepared a summary of accomplishments for the last five years related to the Arizona-Mexico Commission (AMC) Environment & Water Committee activities. On November 21, staff participated in the AMC Interplenary hosted by Sonora at the Hotel Fiesta Inn in Nogales, Sonora. ADEQ proposed future recommendations for development of binational watershed maps to assist with emergency response for train derailments carrying hazardous materials. On December 6, staff participated in Arizona/Sonora Border 2020 Emergency Preparedness Task Force meeting in Nogales, Sonora, in support of AMC recommendations. Staff presented at Nogales Binational Technical Committee meetings hosted by the U.S. International Boundary and Water Commission (IBWC) on February 12, March 25, and June 25. Staff drafted summaries for these meetings. On March 11, staff briefed the Sonoran Institute regarding ongoing issues and challenges in the border region in support of potential case studies for the next Good Neighbor Environmental Board Report. On March 26, staff co-chaired the Arizona-Sonora Border 2020 Water Task Force meeting that took place during the U.S.-Mexico Border 2020 Environmental Program's Arizona-Sonora Regional Workgroup meeting in Nogales, Sonora. Staff delivered two presentations and followed up with a draft meeting summary for review by the

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other co-chairs. Public input was reflected in the finals published by EPA on May 27. On March 27, staff summarized Border 2020 and OBEP activities at the Annual Santa Cruz River Researchers Days hosted by the Sonoran Institute in Tucson, and again on May 8 at an annual conference hosted by the Arizona Water Association in Glendale. On April 4, staff shared AZPDES requirements and pretreatment data with the Association of Maquiladoras of Sonora. On May 2, staff shared background materials in support of two possible case studies for the Good Neighbor Environmental Board (GNEB). The materials focused on recommendations for ecological restoration for the border region. On June 6, staff submitted a draft case study for the Upper Santa Cruz River for consideration by the GNEB. On June 24, staff coordinated a field trip for Arizona State University (ASU) to visit Alcoa Fastening Systems in Tucson and the Nogales International Wastewater Treatment Plant in Rio Rico. ASU used information gathered from the visit in support of pretreatment training materials being developed through the EPA Border 2020 program. On June 25, staff coordinated a field trip for binational stakeholders to the 23rd Avenue Wastewater Treatment Plant in Phoenix. Alternative monitoring technologies related to pretreatment were discussed for improving communication with Mexico. IBWC is evaluating S:CAN technology for a pilot study at this time for the purpose of helping regulators respond to pollution when it occurs.

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| GOAL #2: Protecting America's Waters                             |  | Program #s 4400: Underground Water Regulation<br>4500: Surface Water Regulation<br>4900: Drinking Water Regulation  |                                  |
|--|--|---|----------------------------------|
| Objective 2.1 Protect Human Health                               |  |   |                                  |
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems. |  |   |                                  |
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL   | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.5.2  | <b>TASK: Water Quality Planning</b><br><br>Coordinate the development and amendment of annual water quality work plans and grants. Plan, control and monitor expenditures of manpower and state/federal financial resources. Manage business functions, including Division contracting activities.<br><br><b>DELIVERABLES:</b>   |   |                                  |
| PPG<br>NPS in<br>PPG   | 1) Develop annual FY15 Integrated Water Quality Division Work Plan and submit to EPA (Overall NPS Program Management)  | T = Draft 2/14      A = 2/14<br>Final 4/14      A = 5/14  | Director                         |
| PPG  | 2) Coordinate development of performance reports<br>a) Midyear Output Report to EPA<br>b) Final Output Report to EPA<br>c) Strategic Plan Performance Measures (NPS Goal 4)  | T=<br>a) 2/15/14      A = 2/12/14<br>b) 8/13      A = 8/13<br>c) Quarterly <b>Comment</b>   | Director                         |
| PPG<br><br>PWSS<br>Federal                                       | 3) WQ Planning documents<br>a) Distribute budget and work plan books for FY14 start-up.<br>b) Finalize spreadsheets for FY15 startup.<br>c) Conference calls with EPA regarding budget updates. (FY13 FSR Review & FY14 Update)<br>d) Conference calls with WIFA regarding WIFA set-asides.<br>e) Submit Budget Status Reports (BSR) summaries for:<br>i) Performance Partnership Grant (PPG)<br>ii) WIFA PWSS Federal (15%) Set-Aside<br>iii) WIFA Wellhead (10% Set-Aside)<br>(Overall NPS Program Management) | T =<br>a) 7/13      7/13<br><br>b) 5/14      A = 5/14<br>c) 10/13; 1/14; 4/14<br>A = 2/14 <b>Comment</b><br>d) 10/13; 1/14; 4/14<br><b>Comment</b><br>e) T = 10/13; 1/14; 4/14<br>A = 10/13; 1/14; 4/14 | Director                         |
| PPG  | 4) Coordinate with EPA the destruction of the official Construction Grant files as they are returned from State Retention Center.  | T = As required<br><b>Comment</b>   | Director                         |
|  | 5) Prepare revised SF 424A to reflect the actual costs of SFY 2014 PPG at end of year. A corresponding narrative write up will be submitted to reflect any impacts to individual SFY 2014 Work Plan tasks and/or deliverables..  | T = 9/30/14<br>A = 9/30/13  | Director                         |

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|   |  |  |   |
|---|--|--|---|
| <b>GOAL #2: Protecting America’s Waters</b>                             |  | <b>Program #s 4400: Underground Water Regulation</b>                       |   |
|   |  | <b>4500: Surface Water Regulation</b>                                      |   |
|   |  | <b>4900: Drinking Water Regulation</b>                                     |   |
| <b>Objective 2.1</b> Protect Human Health                               |  |  |   |
| <b>Objective 2.2</b> Protect & Restore Watersheds & Aquatic Ecosystems. |  |  |   |
| <b>TASK/<br/>GRANT</b>  | <b>OUTPUT DESCRIPTION</b>                    | <b>EVALUATION, DATE OR<br/>QUANTITY (CUMULATIVE)<br/>T=TARGET A=ACTUAL</b> | <b>RESPONSIBLE<br/>SECTION/<br/>STAFF</b> |
| <b>1.5.2</b>  | <b>TASK: Water Quality Planning (Cont’d)</b> |  |   |
|   | <b>DELIVERABLES:</b>                         |  |   |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| WQFF-AZPDES               | 1.00        | 32,666           | 14,373        | 22,395          | 69,434         |
| NPS in PPG                | 0.68        | 39,133           | 17,219        | 26,829          | 83,180         |
| PPG                       | 1.16        | 50,202           | 22,089        | 34,418          | 106,709        |
| PWSS Federal              | 0.50        | 29,302           | 12,893        | 20,089          | 62,284         |
| <b>TOTALS</b>             | <b>3.34</b> | <b>151,303</b>   | <b>66,574</b> | <b>103,731</b>  | <b>321,607</b> |

**Comments:** Del. #1: Approved budget appropriated \$1.8 million in VEI funds to support the Safe Drinking Water program which resulted in major revisions to the draft FY15 workplan; final submitted in June 2014. Del. #2c: ADEQ has adopted internal performance measures that no longer track with EPA's; this item will be removed from future workplans. Del. #3a: Distribution of workplans completed 7/2/14. Budget books are delayed due to new section budgeting process at the agency level; will be distributed late July once budgets are loaded. Del. #3b: Delay due to new section budgeting process but completed 7/11/14. Del. 3c&d: With the retirement of Laura Bose at EPA and the loss of the WQD business manager, no budget meetings were held in 3<sup>rd</sup> or 4<sup>th</sup> quarter between the agencies. Focus was on finalizing grant applications and FY15 Workplan. Del. #4: Staff researched and received approval to destroy 45 boxes of EPA construction grant files during this fiscal year.

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| GOAL #2: Protecting America's Waters                             |  | Program #s 4400: Underground Water Regulation<br>4500: Surface Water Regulation<br>4900: Drinking Water Regulation |  |
|--|--|--|--|
| Objective 2.1 Protect Human Health                               |  |  |  |
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems. |  |  |  |
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL  | RESPONSIBLE<br>SECTION/<br>STAFF                                       |
| 1.5.3  | <b>TASK: Water Quality Data Management</b><br><br>Facilitate the development and management of relevant database applications including the integration of ground water, surface water and engineering review applications. Facilitate the development of new and expansion of existing e-government applications. Facilitate water data capture, storage, access, retrievals, analysis, integration and sharing. Conduct GIS projects and data analysis in coordination with water and waste programs, ITS and GIS Technical Committee, and AGIC.<br><br><b>DELIVERABLES:</b> |  |  |
| PPG  | 1) Facilitate the analysis, design, programming, and implementation steps to meet new requirements for WCET database system, including uploads of minor facility data to PCS, enhancements to system needed to support compliance improvement initiative, and meeting future EPA ICIS (Integrated Compliance Information System) requirements.   | T = 6/14 <b>Comment</b>  | ITS (ASD)<br>Director<br>Compliance                                    |
|  | 2) Continue to participate in E-Gov projects, including basic water quality electronic data transfers:<br>a) E-DMRs<br>b) SDW system data reporting (SDWIS module)<br>c) STORET WQX  | T =<br><br>a) Ongoing <b>Comment</b><br>b) Ongoing <b>Comment</b><br>6/30/14 <b>Comment</b>                        | Director<br>ITS (ASD)<br>Compliance<br>Drinking Water<br>Surface Water |
| PPG  | 3) Continue to facilitate and assist analysis, design, programming, and implementation steps to fix bugs and meet new requirements for:<br>a) Groundwater and Surface Water Quality database, including the development of necessary interfaces to accept data submittal from outside agencies, volunteer monitoring groups, SRP, USGS<br>b) Permits and Certifications/Stormwater database<br>c) Engineering Review systems   | T = 6/14 <b>Comment</b>  | ITS (ASD)<br>Director  |
|  | 4) Enter ambient water quality data (tissue and sediment data included) into Water Quality Exchange ( <del>WQE</del> ) (WQX).  | T = Quarterly<br><b>See comments from #2c.</b>   | Director   |
|  | 5) ADEQ and EPA Region 9 will review the January 2013 SDWIS Data Quality Report and collaboratively determine high priority data quality improvement areas to be addressed in FY14.  | T = 1 <b>Comment</b>   | Drinking Water   |

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| <b>GOAL #2: Protecting America’s Waters</b>                             |   | <b>Program #s 4400: Underground Water Regulation</b>                       |   |
|---|---|--|---|
|   |   | <b>4500: Surface Water Regulation</b>                                      |   |
|   |   | <b>4900: Drinking Water Regulation</b>                                     |   |
| <b>Objective 2.1</b> Protect Human Health                               |   |  |   |
| <b>Objective 2.2</b> Protect & Restore Watersheds & Aquatic Ecosystems. |   |  |   |
| <b>TASK/<br/>GRANT</b>  | <b>OUTPUT DESCRIPTION</b>   | <b>EVALUATION, DATE OR<br/>QUANTITY (CUMULATIVE)<br/>T=TARGET A=ACTUAL</b> | <b>RESPONSIBLE<br/>SECTION/<br/>STAFF</b> |
| <b>1.5.3</b>  | <b>TASK: Water Quality Data Management (Cont’d)</b><br><br><b>DELIVERABLES:</b> |  |   |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| WQFF-AZPDES               | 0.67        | 38,388           | 16,891        | 26,318          | 81,597         |
| WQFF-APP                  | 0.17        | 9,675            | 4,257         | 6,633           | 20,565         |
| PPG                       | 1.20        | 61,465           | 27,045        | 42,139          | 130,649        |
| <b>TOTALS</b>             | <b>2.04</b> | <b>109,528</b>   | <b>48,193</b> | <b>75,090</b>   | <b>232,811</b> |

### Comments:

Del #1: Completed upload of all data families; upload errors less than 1% of all required data. Will continue to work to achieve complete uploads. WCT to ICIS: ADEQ made significant progress in its development of the node to transmit data from the WCT database into ICIS. The project is 95 percent complete. Currently the remaining 5 percent is not flowing into ICIS due to data quality issues in WCT. The WQCS and IT will continue to work on this project to resolve the reject data in FY15.

Del #2a – E-DMRs: The WQCS participated in the myDEQ project to develop mechanisms to facilitate electronic self-reporting of monitoring data. The project involves the development of a web portal where permittees will be able to conduct business with ADEQ much like a banking website. One of the pilot modules was to develop a platform where Aquifer Protection Permittees will be able to submit their monitoring and reporting data through the portal. The permittees will be provided a compliance determination one day after their submittal. The platform should translate well for the AZPDES Discharge Monitoring Reports and is scheduled for development in 2015.

Del #2b: The drinking water program fully loaded XML and partially loaded SDWIS Lab-to-State into a test environment. Evaluation of the XML component is ongoing and an assessment of the SDWIS Lab-to-State module will commence shortly after the upload is completed. Parallel to the ongoing uploading and testing activities, cost/staffing estimates for full implementation (via assistance from IT) are being refined. The Water Quality Division plans to have partial electronic reporting capabilities online for drinking water in FY15.

Del #2c, 3a & 4: Completed upload of data from 2005 to current; fewer than 2% errors in upload. ADEQ will modify data systems to allow nightly reporting of water quality data to WQX and remaining upload data.

Del 3b. SMART NOI and WQDbase stormwater database are nearing completion and will be placed in the project queue for the myDEQ project.

Del 3c: No ETA as yet; very out of date system requiring extra effort to review records. All IT resources are dedicated to MyDEQ.

Del. 5: ADEQ and EPA worked collaboratively and reviewed data/reports extracted from a January 2014 pull from SDWIS/Fed. ADEQ agreed to begin to collect locational data for treatment plants and to fill in any missing locational gaps for sources of drinking water. As sanitary surveys continue, ADEQ inspectors will also refine locational information and report all findings in



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decimal degrees as suggested by EPA (i.e., a subset of locational data have been reported without decimal places). ADEQ efforts have also commenced to resolve “open ended” violations (i.e., violations associated with monitoring periods that end in 12/31/2025) and substantial progress has been made to update and resolve numerous CCR violations.

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| GOAL #2: Protecting America's Waters                             |  | Program #s 4500: Surface Water Regulation<br>4900: Drinking Water Regulation |                                  |
|--|--|--|----------------------------------|
| Objective 2.1 Protect Human Health                               |  |  |                                  |
| Objective 2.2 Protect & Restore Watersheds & Aquatic Ecosystems. |  |  |                                  |
| TASK/<br>GRANT   | OUTPUT DESCRIPTION   | EVALUATION, DATE OR<br>QUANTITY (CUMULATIVE)<br>T=TARGET A=ACTUAL            | RESPONSIBLE<br>SECTION/<br>STAFF |
| 1.5.4  | <b>TASK: WIFA Support</b><br><br>Provide engineering services to WIFA projects and engineering support to Arizona border communities and to delegated counties and cities statewide.<br><br><b>DELIVERABLES:</b>   |  |                                  |
| PPG<br>Wellhead  | 1) Provide engineering services to WIFA:<br>a) Provide outreach and project conceptual assessment for communities considering participation with WIFA. Initial site visits with project sponsors for engineering reconnaissance overview and draft feasibility assessment.<br>b) Provide engineering consultation during loan application process (review PFA and due diligence reports) and as needed through project closeout.<br>c) Accompany WIFA project managers on construction observations when needed.<br>d) Serve on Planning and Design Grants scoring committee and consult with WIFA Grants coordinator on scope of work development, project progress and deliverables.<br>e) Attend Project Status Team meetings, Tech Team Meetings and RWIC meetings. Serve as a liaison for federal border water and wastewater issues and grants.<br>f) Track project progress and completion, construction outcomes and relate to design standards and regulatory issues. | T = 6/14 <b>Comments</b>   | SRO                              |
| PWSS<br>Federal  | 2) Provide engineering evaluation, oversight and technical assistance to facilitate the planning, design and construction of water and wastewater infrastructure projects in the 100 km border region to ensure that facilities conform to applicable standards and protect Arizona's environment.   | T = As needed <b>Comments</b>  | SRO                              |
| PPG  | 3) Assist WQD with engineering technical assistance, training and outreach.  | T = As needed  | SRO                              |

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|   |                                    |  |   |
|---|------------------------------------|--|---|
| <b>GOAL #2: Protecting America's Waters</b>                             |                                    | <b>Program #s 4500: Surface Water Regulation<br/>4900: Drinking Water Regulation</b> |   |
| <b>Objective 2.1</b> Protect Human Health                               |                                    |  |   |
| <b>Objective 2.2</b> Protect & Restore Watersheds & Aquatic Ecosystems. |                                    |  |   |
| <b>TASK/<br/>GRANT</b>  | <b>OUTPUT DESCRIPTION</b>          | <b>EVALUATION, DATE OR<br/>QUANTITY (CUMULATIVE)<br/>T=TARGET A=ACTUAL</b>           | <b>RESPONSIBLE<br/>SECTION/<br/>STAFF</b> |
| <b>1.5.4</b>  | <b>TASK: WIFA Support (Cont'd)</b> |  |   |
|   | <b>DELIVERABLES:</b>               |  |   |

| <b>FTE Funding Source</b> | <b>FTE</b>  | <b>Personnel</b> | <b>ERE</b>    | <b>Indirect</b> | <b>Total</b>   |
|---------------------------|-------------|------------------|---------------|-----------------|----------------|
| PWSS Federal              | 0.25        | 14,206           | 6,251         | 9,739           | 30,196         |
| Wellhead                  | 0.25        | 14,206           | 6,251         | 9,739           | 30,196         |
| PPG                       | 0.05        | 2,841            | 1,250         | 1,948           | 6,039          |
| WQFF-AZPDES               | 0.27        | 16,232           | 7,142         | 11,128          | 34,502         |
| WQFF-APP                  | 0.20        | 11,365           | 5,001         | 7,792           | 24,157         |
| <b>TOTALS</b>             | <b>1.02</b> | <b>58,850</b>    | <b>25,895</b> | <b>40,346</b>   | <b>125,090</b> |

### 4th QTR: SRO Office of Border Environmental Protection –

#### **WIFA SUPPORT & ADEQ WQD SUPPORT:**

(1a) Staff continued to perform outreach at the Arizona Water Association (AZWA) Wastewater Treatment Committee's (WWTC) meetings. Staff attended the USDA/EPA Joint U.S. Mexico Border Needs Assessment and Support Project webcast in hopes that there would be funding opportunities for Arizona and the International Outfall Interceptor. Staff responded to a telephone call from the Southeast Community Liaison and Santa Cruz County Supervisor, Manuel Ruiz, to try to address issues with county residents that are on private wells being affected by the drought. Staff met with the City of Nogales assistant public works director to show him a potable water pipe-stand at Las Quintas Water that could provide county residents with water if the city chose to install one. Staff also spoke with others inside the agency and with other funding agencies, including the BECC and WIFA, to see if there were options for the city and county to help service the residents that are experiencing water loss. On April 1, staff joined WIFA's Mohave County Project Manager to provide technical assistance to Golden Shores regarding water supply issues. (1b) Staff performed drinking water technical reviews of the Water Utilities Community Facilities District (Apache Junction Water), Humboldt Water Systems, Granite Mountain Water Company and Sunrise Water Company Preliminary Financial Applications (PFA) for the April and June WIFA Board meetings. Staff performed a clean water technical review of the Douglas Preliminary Financial Application (PFA) for the April WIFA Board meeting. (1c) On May 9, staff accompanied the WIFA project manager on the final site visit to Casa Grande West water system. (1d) Nothing to report. (1e) Staff attended project status tracking and technical team meetings as scheduled and available. Staff met with the WIFA technical supervisor for one-on-one coordination meetings. Staff attended the April and June WIFA Board Meeting. (1f) Staff joined the WIFA project manager for a project close-out site visit to Picacho Peak water company. Staff reviewed a City of Globe 2005 loan project list for ADEQ permit requirements for the WIFA project manager. Staff performed the project close-out site visit for Southland Utilities, Inc. Golden Acres water system in Sierra Vista.

(2) Staff attended/assisted EPA and their consultant to hold the two-day "Water and Wastewater Utility Operation and Maintenance Training for Small Rural Systems" workshop with simultaneous translation services in Rio Rico, Arizona. Staff engaged the EPA and BECC to discuss the El Tecnológico lift station in Nogales, Sonora, for adding redundancy to prevent future sanitary sewer overflows when the lift station is taken offline for sediment cleaning maintenance. Due to the manual grit chamber, this redundancy or addition of an automatic grit chamber will become more important once the Southwest Colonias Project (3,506 wastewater connections) is connected and adds 1 MGD of flow to the collector. Staff reviewed and provided comments to the Border Environment Cooperation Commission on the scope of work to create a pretreatment control toolkit and training for small utilities that is currently being procured and will hopefully be hosted on ADEQ's website. Staff also met with the BECC and City of Nogales to include them as a sponsor for the toolkit. Staff answered technical questions for the EPA regarding mercury seal abatement at an old trickling filter plant for decommissioning and reasons why an anaerobic digester is not producing enough gas. Staff set-up and attended a tour of the Willcox drinking water system for the EPA. Staff answered a

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technical question on creosote oil and pentachlorophenol treated telephone pole storage. Staff answered permitting questions on the city of Nogales' Crawford Street main replacement project. On June 25, staff joined the Governor's Office of Energy Policy for a meeting to discuss energy audit requirements for wastewater facilities. Staff provided as-needed technical assistance to the BECC, including project update teleconferences and document review. Staff attended meetings, answered technical questions, and reviewed documents for the following projects: 1) EPA/BECC 2012 selected "Wastewater Treatment Plant Improvements" project for the city of Willcox, AZ, including: advocating for a million dollar solar array; attending and commenting on the 90 percent design; informally meeting with the city manager to discuss the project and get buy-in; and sending the city industrial pretreatment surveys so Willcox could begin fingerprinting their commercial users. 2) EPA/BECC 2010 selected "Bay Acres Colonia Sanitary Sewer and WWTP Improvement" project for the city of Douglas, AZ, including reviewing the scope of work for design services; 3) EPA/BECC 2012 selected "Drinking Water Quality Improvement (Arsenic Removal)" project for the Pomerene DWID in Benson, AZ, including attending a board meeting on the May 6 and discussing alternatives prior to the issuance of the 90% preliminary engineering report. Staff tracked the progress and provided as-needed technical assistance to the following North American Development Bank Border Environment Infrastructure Fund projects: 1) EPA/BECC 2009 selected "Tintown Colonia Sanitary Sewer Improvements" project for the city of Bisbee, including discussing bid results and attending the pre-construction meeting with the selected construction contractor; 2) EPA/BECC 2012 selected "Wastewater Collection System Expansion to Sulger Subdivision" project for the city of Sierra Vista, AZ, which staff visited on June 17, and is now more than 90 percent complete. (3) Staff administered an Operator Certification practice exam to an Apache Nitrogen Products employee and spent time tutoring after he failed the exam. Soon thereafter the employee passed his exam and became an operator. Staff administered an exam to an ADOC employee in Safford and later administered an exam in Tucson. Staff encouraged ADEQ employees to take operator certification exams and administered 9 exams to employees. Staff met with the City of Douglas public works director to discuss a construction authorization for a sewer-line that was already in service. Staff was able to assist the city in tracking down the history and obtaining the required permit for the Douglas Phase II Sewer Improvements project on April 15. Staff also assisted the city with obtaining an updated compliance status report for the city's water system. Staff presented a two-part brown bag series on wastewater treatment to ADEQ SRO employees on two consecutive Mondays. Staff helped compile a list of ADEQ wastewater facilities in Southern Arizona. Staff attended the city of Phoenix industrial pretreatment academy laboratory methods class.

### **NARRATIVE: WIFA Support & ADEQ WOD Support:**

ADEQ's Office of Border Environmental Protection (OBEP) within the Southern Regional Office (SRO) in Tucson continued to provide progress on all deliverables related to Task #1.5.4, WIFA Support. Of particular note, the Bisbee Tintown and Sierra Vista Sulger projects have been certified and an agreement has been signed between the municipalities and the North American Development Bank (NADB) to approve Border Environment Infrastructure Fund (BEIF) grant monies for construction. These two projects should be constructed by the end of the next fiscal year. For the Douglas Bay Acres Colonia and WWTP Expansion project, staff was instrumental in performing reconnaissance of the project area to obtain pictures and other documentation, including photos of ponding from overwhelmed septic tanks and poor gray water practices, to support the project. Staff also reviewed several versions of the preliminary engineering reports and provided comments to get the planning and design documents completed, so the project can move to design in the next fiscal year. The City of Willcox WWTP Upgrade project completed the planning process and began design, which is near 60% complete. Staff also identified communities in the Arizona border region that needed drinking water or wastewater infrastructure improvements, performed outreach on potential funding sources for those communities, and advocated for funding needs with agencies such as EPA, the Border Environment Cooperation Commission (BECC), the Arizona Water Infrastructure Financing Authority, and the U.S. Department of Agriculture (USDA). Staff has been an active part of the Rural Water Infrastructure Committee (RWIC) by visiting systems to provide technical assistance and help with ADEQ's Strategic Plan Performance Measures of "Increase number of facilities in compliance at the time of inspection by 50% over 5 years" and "Reduce return to compliance timeframe by 50% over 5 years". Specifically, staff provided training and assisted the City of Douglas with waterline testing to bring their drinking water system into compliance. Staff also provided technical assistance to the city's wastewater treatment plant to help maintain compliance by treating for filamentous bacteria that was affecting the effluent quality. Through past relationships, other drinking water systems contacted staff for technical advice. Staff continued to support WIFA technically by attending WIFA meetings, RWIC meetings, WIFA Board meetings, attending conferences on WIFA's behalf, reviewing Preliminary Finance Applications, working on project priority lists, and assisting WIFA with final inspections and Davis-Bacon interviews. Staff also assisted WIFA with the grant prioritization process by being an active member of the scoring committee, reviewing scope of work documents, and final documents. The Operator Certification Program was supported by giving exams and practice exams to operators and giving a presentation at the AZ Water conference in Glendale.

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Under Deliverable #2, staff continued to coordinate with Mexican local, state and federal authorities on water infrastructure projects that may affect Arizona. This included attending Binational Technical Committee meetings hosted by the International Boundary and Water Commission (IBWC), reviewing environmental documents for projects in Nogales, Sonora, and working with IBWC to begin planning new projects. Staff attended the inaugural ceremony for the Los Alisos WWTP in Nogales, Sonora, and provided its operator with wastewater treatment manuals in Spanish to assist with the operation of this newly commissioned infrastructure.